Biol. Chem., Vol. 382, pp. 1753–1756, December 2001 · Copyright © by Walter de Gruyter · Berlin · New York

Author Index

Abe, N. 817
Abraham-Podgornik, A. 407
Abudula, A. 1583
Adam, A. 131
Agnez-Lima, L.F. 1071
Albach, C. 187
Alia 1271
Altmeyer, S. 1343
Alvarez-Hernandez, A. 839
Amoresano, A. 961
Andrade, S.A. 109
Andreesen, J.R. 979
Andreesen, R. 507
Andrews, A.J. 1171
Anemüller, S. 1501
Aoki, K. 831
Aparicio, R. 1039
Araújo, R.C. 91
Arima, K. 1509
Armeni, T. 1697
Arnold, S. 1629
Arnold-Schild, D. 629
Arribére, M.C. 879
Arroyo de Prada, N. 1197
Asao, T. 817
Ashman, K. 1049
Assfalg-Machleidt, I. 97, 1733
Aubrey, N. 1621
Auerswald, E.A. 97, 1733
Aurer, A. 1491

Baba, A. 817
Bach, K. 891, 1077
Bachvarov, D.R. 131
Bachvarova, M. 131
Bader, M. 91
Baehr, W. 1179
Banbula, A. 1095, 1399
Barlič-Maganja, D. 867
Barrett, A.J. 727, 777, 953
Bartelsen, O. 283
Battino, M. 925, 1697
Baumeister, W. 449
Bause, E. 1039
Beach, D.H. 275
Beaucamp, N. 693
Beck, D. 933
Begoña Bugía, M. 1473
Behl, C. 1601
Behrendt, N. 435
Beirlant, J. 355
Bender, E. 1629
Berencsi, G. 699
Berger, M. 291
Berkefeld, C. 195
Bernimoulin, J.-P. 1491
Betz, H. 1455
Bevec, T. 867
Beyer, K. 1601
Beyersmann, D. 1227
Bhoola, K. 77
Biagini, G. 1697
Billiald, P. 1621
Birkmann, E. 683
Bissig, K.-D. 711
Blankenstein, P. 407
Blaukat, A. 135
Blockhaus, M. 1663
Blom, H. 393
Blomgren, K. 831
Bode, J.G. 1447
Bode, W. 753
Bogengruber, E. 1637
Bohley, P. 677
Bolognesi, M. 1245
Bompadre, S. 925
Bondzio, A. 407
Bonin, M. 1157
Bordo, D. 1245
Bornholdt, S. 1289
Bors, W. 1019
Bösze, S. 669
Bottomley, S.P. 1593
Bouthillier, J. 131
Bovee-Geurts, P.H.M. 1263
Brandenburg, K. 1215
Brandstetter, H. 1277
Braun, A. 885
Breikers, G. 1263
Breitenbach, M. 1637
Breuer, W. 1039
Briviba, K. 1663
Brix, K. 717
Brockhausen, I. 219
Bronson, J.D. 1179
Brown, J.W. 1171
Brünner, N. 805
Bruns, K. 459
Büchner, D. 1373
Buchynskyy, A. 479
Budde, H. 459
Budin, N. 1365
Bukau, B. 1235
Bunn Jr., P.A. 37
Burda, M.R. 1049
Bürgle, M. 1197
Burmester, G.-R. 1491
Buschle, M. 505, 581
Buschmann, V. 495

Cacan, R. 151
Caffarella, J. 399
Caffini, N.O. 871, 875, 879
Caflisch, A. 1365
Camacho Gomez, J.A. 387
Čamaj, P. 1669
Caposio, P. 1253
Carmona, A.K. 847
Carpen, A. 1245
Carroll, S.F. 425
Casoli, A. 363
Cassim, B. 77
Cezari, M.H. 847
Chan, D.C. 37
Chandra, R. 941
Chang, R.S.L. 123
Chao, J. 15
Chao, L. 15
Chen, H. 1057
Chen, J.-M. 777
Chen, L.-M. 15
Chen, T.-B. 123
Chen, V. 15
Chen, X.-L. 23
Chen, Y. 379
Chmiel, D. 1575
Choli-Papadopoulou, T. 1001
Chow, M.K.M. 1593
Cibelli, G. 891
Cieśla, J. 1439
Cimerman, N. 805
Clements, J. 5
Coan, C. 471
Cohen, C.D. 1405
Colman, R.W. 65
Colnaghi, R. 1245
Conforti, P. 879
Conti, A. 1253
Cordero, O.J. 1473
Correia Freitas, C.A. 1447
Cortadi, A. 879
Costello, C.E. 275
Cottin, P. 767
Cox, J.C. 1327
Cukovic, D. 645
Cuthbert, A.W. 57
Czerney, P. 495

D'Alò, S. 1277
Dando, P.M. 953
Danker, K. 969
Davidson, E. 399
Davidson, E.A. 1327
de Groot, H.J.M. 1271
De Luca, E. 961
de Oliveira, C. 847
De Smedt, S. 379
DeCaluwé, G.L.J. 1263
Dedio, J. 1483
Degitz, K. 1197
DeGrip, W.J. 1263
Delie, F. 487
Demberg, T. 1089
Demeester, J. 379
Demple, B. 1071
Dendorfer, A. 1483
Dennis, R.D. 195
Desmazes, C. 811
Deuerling, E. 1235
Deussing, J. 735
Devaux, C. 1621
Devlin, G.L. 1593
di Luccio, E. 1621
Di Mascio, P. 913, 1071
Dietrich, A. 495
Dietrich, G. 521
Dikic, I. 135
Dittrich, P. 491
Dlamini, Z. 77
Dobner, T. 1373
Dong, Y. 5
Doppler, E. 1637
Dörnemann, D. 913
Dosescu, J. 785
Douglas, C.J. 645
Du, P.-G. 1715
Duan, C.-X. 933
Dubin, A. 1575
Dubin, G. 1575
Dzik, J.M. 1439

Eckerskorn, C. 1541
Egorova, A. 23
Ehlting, J. 645
Ehrnsperger, C. 1463
Eiberger, J. 973
Elling, L. 299
Ellington, A.D. 1327
Engelborghs, Y. 355, 379
Engelholm, L.H. 435
Enz, R. 1111
Erdös, E.G. 43

Fabry, S. 693
Falus, A. 669
Famulok, M. 479
Farr, M. 987
Fehn, M. 859
Feng, Y. 655
Feng, Y.-M. 443, 1057
Fernandez-Catalan, C. 753
Fichtner, I. 91
Fink, H. 1727
Fleckenstein, B. 571
Flohé, L. 459
Földes-Papp, Z. 473
Forlani, F. 1245
Förster, H.-H. 1007
Fortunato, M. 777
Frank, G. 115
Freeze, H. 161
Friedrich, K. 343
Fritz, H. 3, 97, 715
Füchslin, R.M. 1343
Fuhrmann, J.C. 1455
Fujita, T. 61
Fujiwara, M. 1715

Fukuoka, S. 1215
Furuno, T. 831

Gabrijelcic-Geiger, D. 97, 1733
García Díaz, B. 97
Gast, P. 1271
Gauthier, F. 811
Geppert, D. 1277
Gera, L. 37
Geyer, R. 195
Ghebrehiwet, B. 71
Gimple, O. 1421
Gishizky, M. 1649
Gisselmann, G. 1207
Giuffrida, M.G. 1253
Giunta, C. 1253
Gobeil jr., F. 31
Goll, D.E. 767
Gollmitzer, N. 97
Gołos, B. 1439
Golouh, R. 799
Gorini, A. 925
Götze, O. 1089
Goyffon, M. 1621
Graeff, H. 789
Grams, F. 1277
Gratton, E. 379
Greiner-Stöffele, T. 1007
Gribaudo, G. 1253
Griffiths, W.J. 933
Gross, S. 97
Grosskreutz, Y. 1455
Gruenberg, J. 483
Grummt, I. 1163
Gubenšek, F. 867
Guerrero, S.A. 459
Guethlein, L. 891
Günther, D. 1583
Guo, Z.-Y. 443
Gupta, P.K. 941
Gurny, R. 487
Gutiérrez Gallego, R. 299
Gutsmann, T. 425

Haase, H., 1227
Haberer, N. 425
Hackel, P.O. 1649
Hahn, U. 479, 1007, 1287
Hall, T.A. 1171
Hallegger, M. 1637
Hanisch, F.-G. 143
Hardt, B. 1039
Hartl, F.-U. 499, 1101
Harvey, T. 5
Hasegawa, M. 919
Hashii, M. 23
Hatt, H. 1207
Häussinger, D. 1063, 1447
Hayashi, I. 61
Hecht, H.-J. 459
Heinrich, P.C. 1447
Helmerhorst, E.J. 597
Henn-Sax, M. 1315
Henze, K. 1521
Hermann, A. 1455
Herr, A.S. 499
Herzog, V. 717
Hess, J.F. 123
Hey, P.J. 123
Higashida, H. 23
Hilf, N. 629
Hinderlich, S. 291
Hinz, H. 1733
Hirsh, A.E. 1669
Hirt, H. 1123
Höcker, B. 1315
Hoebeke, J. 355
Hoff, A.J. 1271
Hoffmeister, M. 1521
Hofmann, B. 459
Hofmann, H.-J. 1007
Hokari, S. 919
Holsboer, F. 499
Hooper, J. 5
Hoosen, A. 825
Horstkorte, R. 969
Horuk, R. 1405
Hoshi, N. 23
Hottiger, M.O. 993
Hou, Y.-M. 399
Houle, S. 131
Hu, H.-Y. 1679
Hübscher, U. 993
Hudecz, F. 669

Iben, S. 1163
Idris, M.A 195
Igaz, P. 669
Illi, S. 885
Ishida, H. 233
Itzkowitz, S. 219

Jaenicke, R. 693
Jahnz, M. 491
Jankowska, J. 1439
Jansen, K. 683
Janssen, S. 1501
Jantsch, M. 1637
Jaquinod, M. 1049
Jarvis, D.L. 151
Jäschke, A. 1321
Jeltsch, A. 707
Jochum, M. 3, 715
Johansson, J. 933
Joseph, K. 71
Juliano, M.A. 109
Jung, G. 571
Jung, Y.T. 973
Jungermann, K. 1089
Jürgens, G. 1215

Kadenbach, B. 1629
Kadowaki, T. 817
Kalisz, H.M. 459
Kamerling, J.P. 299
Kaneda, M. 1509
Kaplan, A.P. 71
Kaser, A. 1637
Kato, S. 1715
Katori, M., 61
Katunuma, N. 853
Kaufmann, K. 1077
Kaufmann, S.H.E. 521
Kawashima, S. 743
Kayser, H. 1541
Kazimierczuk, Z. 1439
Keller, K. 1551
Kellermann, J. 1197
Kellmann, J.-W. 1559
Keppler, O.T. 291
Kessler, H. 1197
Kettritz, R. 91
Khanna, H. 941
Kimura, Y. 23
King, M.P. 399
Kins, S. 1455
Kirschstein, S.O. 387
Kiso, M. 233
Kittler, L. 387
Klein, R.A. 187
Kleineidam, R.G. 313
Klier, C.M. 1405
Klotz, L.-O. 1687
Knauer, R. 321
Knaus, P. 1189
Kneussel, M. 1455
Knijnik, R. 23
Knops, J. 329
Kobayashi, T. 483
Koch, M.H.J. 1215
Kochman, M. 1027
Koczan, D. 637
Kögel, J. 903
Koleva, M. 1089
Kolkenbrock, H. 1491
Komba, S. 233
Komoda. T. 919
Kong, Y.-y. 655
Kopitar-Jerala, N. 853, 867
Korn, K. 479
Kornberg, R.D. 1103
Kos, J. 799, 805, 853
Kos, M. 259
Koyama, I. 919
Kozak, C.A. 973
Krašovec, M. 805
Kraszewski, A. 1439
Krause, G. 1551
Kreil, G. 1637
Krell, H.-W. 1277
Krüger, A. 789
Krusch, S. 533
Kruse, S. 313
Krzyżanowska, D. 1027
Kucejová, B. 179
Kuhelj, R. 805
Kühn, H. 1687
Kusser, B. 885

La Fontaine, S. 711
Lachance, P. 839
Lah, T.T. 853
Lalik, A. 1027
Lalmanach, G. 811
Landolfo, S. 1253
Lang, K. 1207
Lansmann, S. 283
Lechner, M. 1515
Lee, I. 1629
Lehle, L. 321
Lehmann, F. 495
Lehotay, M. 219
Leinert, H. 1277
Lenz, S. 903
Leone, L. 925
Leontiadou, F. 1001
Lepperdinger, G. 1637
Levy, M. 1327
Li, H. 699
Li, N. 1179
Li, Q. 1679
Li, Y.-H. 1715
Liebisch, P. 1559
Liebmann, C. 49
Lietz, M. 891
Lingnau, K. 581
Linke, M. 717
Linke, T. 283
Lipp, M. 1387
Lisowska, E. 1027
Livi, V. 1277
López, L.M.I. 871, 875
Lorenz, P. 637
Lucka, L. 969
Ludwig, S. 1447
Lugtenburg, J. 1271
Luther, T. 789
Lutz, V. 789

Machleidt, W. 97, 1733
Mackensen, A. 507
Maeda, T. 1715
Magdolen, V. 789, 1197
Majeux, N. 1365
Majima, M. 61
Mak, P. 1399, 1575
Malvezzi-Campeggi, F. 491
Marceau, F. 131
Marchal, I. 151
Marchfelder, A. 1147
Marcic, B.M. 43
Marot, C. 355
Marquardt, T. 161
Martin, W. 1521
Mase, T. 1509
Matthys, G. 355
Mattner, F. 505, 581
Matysik, J. 1271
Mayo, J.A. 1095
Mazzoli, R. 1253
McCaskill, J.S. 1343
Mechai, N. 969
Medeiros, M.H.G. 913
Meidenbauer, N. 507
Meinke, A. 1669
Meisel, B. 1733
Melmed, S. 1447
Ménard, R. 839
Menck, C.F.M. 1071
Menge, U. 459
Menta, E. 1277
Mentele, R. 1733
Mercer, J.F.B. 711

Merschak, P. 1515
Metelmann, W. 259
Miao, R.Q. 15
Miller, D.M. 329
Miller, S. 1049
Minarovits, J. 699, 1411
Miyazaki, T. 919
Moczall, H. 283
Mohr, G.J. 495
Mollenkopf, H. 521
Möller, A. 1733
Monden, I. 1551
Montemartini, M. 459
Moon, J.L. 1095
Moosmann, B. 1601
Mörl, M. 1147, 1431
Müller, G. 1387
Müller, J.D. 379
Müller, M. 1215
Müller-Esterl, W. 3, 1483
Müthing, J. 259
Myöhänen, H. 1563
Myöhänen, S. 699

Naicker, S. 77
Nakanishi, H. 817
Nakanishi, M. 831
Napoleoni, R. 961
Natalucci, C.L. 871, 875
Nellen, W. 1157
Nelson, E.L. 1405
Nelson, P.J. 1405
Neumann, T. 387
Ng, T.B. 947
Nieder, V. 299
Nielsen, H.J. 805
Nieuw Amerongen, A.V. 597
Niller, H.-H. 699, 1373, 1411
Nishi, K. 1715
Noda, M. 23
Nogoceke, E. 459
Nogueira, M. 1473
Nosek, J. 179
Nussenzweig, R.S. 553
Nygård, O. 661

Oberstrass, J. 1157
O'Brien, J. 123
Odhav, B. 825
Ogasawara, M.S. 831
Ogata, S. 219
Ohishi, M. 817
Ohkubo, I. 1715
Oleksy, A. 1095
Oliva, A. 1277
Oliva, M.L.V. 109, 847
Olsowski, A. 1551
Omalley, S.S. 123
Onuki, J. 913
Orrù, S. 961
Oster, U. 903
Ozaki, Y. 831
Ożyhar, A. 1027

Pagani, S. 1245
Paiva, A.C.M. 91
Palczewski, K. 1179
Palm, T. 417
Pardo, M.F. 871, 875
Parther, T. 979
Patel, H.V. 241
Pawlita, M. 291
Perron, S.I. 31
Pesquero, J.B. 91
Pessione, E. 1253
Peter-Katalinić, J. 141, 259
Peters, C. 735, 1133
Pettibone, D.J. 123
Pfeifer, G. 449
Pfeifer, L. 1727
Pfeiler, D. 97
Piechulla, B. 1559
Pietschmann, S. 859
Pilar Arias, M. 1473
Pildner von Steinburg, S. 789
Piñeiro, A. 1473
Plendl, J. 77
Pogge von Strandmann, E. 1379
Post, K. 683
Potaman, V. 329
Potempa, J. 1399
Pott, V. J. 109
Pramanik, A. 371
Praun, M. 885
Premzl, A. 853
Principato, G. 1697
Priolo, N. 879
Prusiner, S.B. 683
Pucci, P. 961
Pugnaloni, A. 1697
Puizdar, V. 853

Qi, G.-r. 655
Qi, H. 839

Raap, J. 1271
Rakwalska, M. 1575
Ramsaroop, R. 77
Rawlings, N.D. 727
Rechkemmer, G. 1663
Redl, B. 1515
Regoli, D. 31
Reichert, A.S. 1431
Reimann, J. 543
Rein, T. 499
Reinheckel, T. 735
Reuning, U. 789
Reusch, D. 693
Reuter, A. 1019
Reutter, W. 291, 969
Reverter, D. 753
Rex, A. 1727
Riedel, T. 1327
Riemer, C. 1197
Riesner, D. 683
Rigler, R. 353, 371, 393, 473
Risse, S. 407
Rizzi, A. 31
Rochat, H. 1621
Rode, W. 1439
Roder, K. 1083
Rodrigues, E.G. 553
Rodriguez Parkitna, J.M. 1027
Roggentin, P. 313
Rommerskirch, W. 1583
Roscher, A.A. 885
Rosenhagen, M.C. 499
Rosi, G. 1697
Rotari, V.I. 953
Roth, W. 735
Rotte, C. 1521
Roush, W.R. 839
Rücknagel, K.P. 979
Rüdiger, S. 1235
Rüdiger, W. 903
Ruhl, M. 1447
Rütten, H. 1483
Ryffel, G.U. 1379
Rzychon, M. 1575

Sadik, C. 1687
Salamon, D. 699, 1411
Sameni, M. 785
Sampaio, C.A.M. 109, 847
Sampaio, M.U. 109, 847
Sandhoff, K. 141, 283
Santana, L.A. 847
Santomauro-Vaz, E.M. 109
Sarkar, M. 209
Sasaki, M. 831
Sathe, S.K. 767
Sato, K. 743
Schachter, H. 209
Schäfer, G. 1501
Schäfer, O. 683
Schaffitzel, E. 1235
Schaper, F. 1447
Schauer, R. 313
Schewe, T. 1687
Schiffer, S. 1147
Schild, H. 629
Schilling, K. 859
Schirmbeck, R. 543
Schlaf, G. 1089
Schlehuber, S. 1335
Schliess, F. 1063
Schlöndorff, D. 1405
Schmid, H.C. 903
Schmidt, U. 499
Schmidt, W. 1669
Schmiedeberg, N. 1197
Schmitt, M. 789, 1197
Schmitz, B. 187
Schmitz, K.-P. 1559
Schnaar, R.L. 241
Schnäbele, K. 1663
Schnepel, J. 1707
Schoehn, G. 1049
Schölkens, B.A. 1483
Schön, A. 1421
Schönhoff, M. 363
Schroeck, F. 1197
Schulten, E. 1271
Schürer, H. 479, 1147
Schurig, H. 693
Schuster, P. 1301
Schweizer, M. 1083
Schwertle, E. 1663
Schwille, P. 491
Sebald, W. 1189
Segesdi, J. 699
Seither, P. 1163
Sekirnik, A. 799
Senkel, S. 1379
Sequeiros, C. 875
Serban, H. 683
Seydel, U. 425
Shahidullah, M. 23
Sharma, C.B. 321
Shin, Y. 23
Shinagawa, K. 1613
Shugar, D. 1439
Siciliano, R.A. 961
Sickinger, S. 1083
Sies, H. 1019, 1687
Simonsson, T. 621
Singh, A. 941
Singh, B.N. 275
Singh, Y. 941
Singh-Jasuja, H. 629
Sirna, A. 961
Sittinger, M. 1491
Skerra, A. 1335
Skutella, T. 1601
Sloane, B.F. 785, 853
Sloma, M.S. 661
Smolian, H. 1491
Smoluch, M. 1399
Söhl, G. 973
Söhling, B. 979
Sokal, I. 1179
Solioz, M. 711
Sooter, L.J. 1327
Sorimachi, H. 753
Spallarossa, A. 1245
Startchev, K. 483
Stawiński, J. 1439
Steinert, P. 459
Sterner, R. 1315
Stettmaier, K. 1019
Stevanovic, S. 677
Stevens, R.A.E. 777
Stewart, J.M. 37
Stratmann, B. 987
Strobbe, R. 355
Strobl, S. 753
Stronati, A. 1697
Stubbs, M.T. 97
Sturm, W. 825
Sulea, T. 839
Suzuki, A. 251
Suzuki, K. 753
Suzuki, M. 251
Suzumori, K. 831
Szkudlarek, J. 1027
Szpacenko, A. 767

Takacs, M. 699, 1411
Takahashi, H. 23
Taketo, M. 23
Tamura, N. 449

Tamura, T. 449
Tang, L. 115
Tasara, T. 993
Teixeira, M. 1501
Teixeira, P.C. 913
Tepel, C. 717
Thayaparan, J. 329
Therrien, C. 839
Thiel, G. 891, 1077
Thiesen, H.-J. 637
Thiry, M. 1163
Thompson, V.F. 767
Thurlow, D.L. 1431
Tokimoto, T. 1613
Tomáška, Ľ. 179
Tomassini, G. 1697
Tóth, S. 669
Travis, J. 1095, 1399
Trejo, S.A. 875
Trent, J. 329
Triantafillidou, D. 1001
Trincão, J. 1501
Trommer, W.E. 417
Tschesche, H. 987, 1707
Tsuji, M. 553
Turk, V. 799, 853, 867

Uchikoba, T. 1509
Uhlig, J. 699, 1411
Ujvari, D. 699
Ullrich, A. 1649
Unger, E. 387
Unger, J. 1707

Vaheri, A. 1563
Vairo Cavalli, S. 879
Van Craenenbroeck, E. 355, 379
van Raaij, M.J. 1049
Van Rompaey, E. 379
Van't Hof, W. 597, 1515
VanZiffle, J.A. 645
Vavrek, R.J. 37
Veerman, E.C.I. 597
Verbert, A. 151
Vercammen, J. 355
Vigneswaran, N. 329
Villa, R.F. 925
Virtanen, I. 1563
Vitseva, O. 399
Vliegenthart, J.F.G. 299
Vogt, U. 1157
Völkert, M. 1133
Volknandt, W. 1463
vom Dahl, S. 1063
von Gabain, A. 505, 581, 1669
von Mutius, E. 885
Vukelić, Ž. 259
Vyas, A.A. 241
Vyas, K.A. 241

Waditschatka, R. 1541
Wagner, E.-M. 1019
Wagner, G. 1019
Wagner, M. 979, 1133
Waldmann, H. 1133
Wallerman, L. 393
Wang, H. 947
Wang, W.-Q. 1679
Wang, Y. 655
Waśniowska, K. 1027
Wassenberg, D. 693
Wassenegger, M. 1157
Wätjen, W. 1227
Weaver, T.E. 933
Weber, E. 1583
Weiher, H. 1019
Weisgerber, J. 283
Weiss, S. 533
Welzel, P. 479
Wennmalm, S. 393
Wenz, I. 859
Wenzel, M. 495
Werle, B. 805
Whalley, E.C. 37
Whitney, A.J. 483
Wiederanders, B. 859, 1583
Wiegräbe, W. 353
Wiemer, G. 1483
Wiese, A. 425
Wiesmüller, K.-H. 571
Wietek, S. 343
Wilhelm, O.G. 789, 1197
Wilkening, G. 283
Willecke, K. 973
Wilmanns, M. 1315
Winter, J. 1541
Wissing, J.B. 459
Wochnik, G.M. 499
Wohlfart, P. 1483
Wojnar, P. 1515
Wolf, H. 699, 1373, 1411
Wolf, S.S. 1083
Wozny, M. 693
Wuhrer, M. 195, 693

Xu, G.-J. 1679

Yamamoto, K. 817
Yamamoto, S. 1715
Yamamoto, Y. 1715
Yamanaka, M. 61
Yamane, T. 1715
Yamaguchi, M. 233
Yang, J. 219
Ye, X.Y. 947
Yokoyama, S. 23
Yonezawa, H. 1509
York, E.J. 37
Yoshimoto, T. 1687
Young, J.C. 499

Zacharias, W. 329
Zacher, J. 1491
Zaltash, S. 933
Zauner, W. 505, 581
Zavašnik-Bergant, V. 799, 853
Zeller, T. 1373
Zervosen, A. 299
Zhang, J.-S. 23
Zhong, Z.-G. 23
Zieliński, Z. 1439
Zimmer, A. 487
Zimmermann, G. 1277
Zore, I. 805
Zwerger, K. 1123

Biol. Chem., Vol. 382, pp. 1757 – 1772, December 2001 · Copyright © by Walter de Gruyter · Berlin · New York

Subject Index

Actin
Schnepel, J., J. Unger and H. Tschesche
Recombinant Cryptic Human Fibronectinase Cleaves Actin and Myosin: Substrate Specificity and Possible Role in Muscular Dystrophy *382*, 1707 – 1714

Adenovirus type 5
Dobner, T., D. Büchner, T. Zeller, H. Wolf and H.H. Niller
Specific Nucleoprotein Complexes within Adenovirus Capsids *382*, 1373 – 1377

ADP-ribosyl cyclase
Higashida, H., S. Yokoyama, N. Hoshi, M. Hashii, A. Egorova, Z.-G. Zhong, M. Noda, M. Shahidullah, M. Taketo, R. Knijnik, Y. Kimura, H. Takahashi, X.-L. Chen, Y. Shin and J.-S. Zhang
Signal Transduction from Bradykinin, Angiotensin, Adrenergic and Muscarinic Receptors to Effector Enzymes, Including ADP-Ribosyl Cyclase *382*, 23 – 30

Alanine scanning mutagenesis
Monden, I., A. Olsowski, G. Krause and K. Keller
The Large Cytoplasmic Loop of the Glucose Transporter GLUT1 Is an Essential Structural Element for Function *382*, 1551 – 1558

5-Aminolevulinic acid
Teixeira, P.C., J. Onuki, M.H.G. Medeiros, D. Dörnemann and P. Di Mascio
DNA Damage by 3,6-Dihydropyrazine-2,5-Dipropanoic Acid, the Cyclic Dimerization Product of 5-Aminolevulinic Acid *382*, 913 – 918

2-Aminopurine
Wennmalm, S., H. Blom, L. Wallerman and R. Rigler
UV-Fluorescence Correlation Spectroscopy of 2-Aminopurine *382*, 393 – 397

Anencephaly
Vukelić, Ž., W. Metelmann, J. Müthing, M. Kos and J. Peter-Katalinić
Anencephaly: Structural Characterization of Gangliosides in Defined Brain Regions *382*, 259 – 274

Angiogenesis
Chao, J., R.Q. Miao, V. Chen, L.-M. Chen and L. Chao
Novel Roles of Kallistatin, a Specific Tissue Kallikrein Inhibitor, in Vascular Remodeling *382*, 15 – 21

Colman, R.W.
Role of the Light Chain of High Molecular Weight Kininogen in Adhesion, Cell-Associated Proteolysis and Angiogenesis *382*, 65 – 70

Angiotensin I converting enzyme (ACE)
Erdös, E.G. and B.M. Marcic
Kinins, Receptors, Kinases and Inhibitors – Where Did They Lead Us? *382*, 43 – 47

Angiotensin II
Dedio, J., G. Wiemer, H. Rütten, A. Dendorfer, B.A. Schölkens, W. Müller-Esterl and P. Wohlfart
Tissue Kallikrein KLK1 Is Expressed *de Novo* in Endothelial Cells and Mediates Relaxation of Human Umbilical Veins *382*, 1483 – 1490

Anthrax toxin
Khanna, H., P.K. Gupta, A. Singh, R. Chandra and Y. Singh
Participation of Residue F^{552} in Domain III of the Protective Antigen in the Biological Activity of Anthrax Lethal Toxin *382*, 941 – 946

Antibiotic
Van't Hof, W., E.C.I. Veerman, E.J. Helmerhorst and A.V. Nieuw Amerongen
Antimicrobial Peptides: Properties and Applicability *382*, 597 – 619

Antibody fragment, single-chain
Aubrey, N., C. Devaux, E. di Luccio, M. Goyffon, H. Rochat and P. Billiald
A Recombinant scFv/Streptavidin-Binding Peptide Fusion Protein for the Quantitative Determination of the Scorpion Venom Neurotoxin AahI *382*, 1621 – 1628

Antibody, monoclonal
Kopitar-Jerala, N.,T. Bevec, D. Barlič-Maganja, F. Gubenšek and V. Turk
Anti-Cathepsin L Monoclonal Antibodies That Distinguish Cathepsin L from Cathepsin V *382*, 867 – 870

Krzyżanowska, D., A. Ożyhar, A. Lalik, J.M. Rodriguez Parkitna, J. Szkudlarek, K. Waśniowska, E. Lisowska and M. Kochman
Juvenile Hormone Binding Protein and Transferrin from *Galleria mellonella* Share a Similar Structural Motif *382*, 1027 – 1037

Antibody, triplex DNA-specific
Vigneswaran, N., J. Thayaparan, J. Knops, J. Trent, V. Potaman, D.M. Miller and W. Zacharias
Intra- and Intermolecular Triplex DNA Formation in the Murine c-*myb* Proto-Oncogene Promoter Are Inhibited by Mithramycin *382*, 329 – 342

Anticalin
Schlehuber, S. and A. Skerra
Duocalins: Engineered Ligand-Binding Proteins with Dual Specificity Derived from the Lipocalin Fold *382*, 1335 – 1342

Antigen
Zauner, W., K. Lingnau, F. Mattner, A. von Gabain and M. Buschle
Defined Synthetic Vaccines *382*, 581 – 595

Antigen presentation
Meidenbauer, N., R. Andreesen and A. Mackensen
Dendritic Cells for Specific Cancer Immunotherapy *382*, 507 – 520

Reinheckel, T., J. Deussing, W. Roth and C. Peters
Towards Specific Functions of Lysosomal Cysteine Peptidases: Phenotypes of Mice Deficient for Cathepsin B or Cathepsin L *382*, 735 – 741

Zavašnik-Bergant, V., A. Sekirnik, R. Golouh, V. Turk and J. Kos
Immunochemical Localisation of Cathepsin S, Cathepsin L and MHC Class II-Associated p41 Isoform of Invariant Chain in Human Lymph Node Tissue *382*, 799 – 804

Antioxidant
Armeni, T., M. Battino, A. Stronati, A. Pugnaloni, G. Tomassini, G. Rosi, G. Biagini and G. Principato
Total Antioxidant Capacity and Nuclear DNA Damage in Keratinocytes after Exposure to H_2O_2 *382*, 1697 – 1705

Schewe, T., C. Sadik, L.-O. Klotz, T. Yoshimoto, H. Kühn and H. Sies
Polyphenols of Cocoa: Inhibition of Mammalian 15-Lipoxygenase *382*, 1687 – 1696

Apoptosis
Briviba, K., K. Schnäbele, E. Schwertle, M. Blockhaus and G. Rechkemmer
β-Carotene Inhibits Growth of Human Colon Carcinoma Cells *in Vitro* by Induction of Apoptosis *382*, 1663 – 1668

Haase, H., W. Wätjen and D. Beyersmann
Zinc Induces Apoptosis That Can Be Suppressed by Lanthanum in C6 Rat Glioma Cells *382*, 1227 – 1234

Reinheckel, T., J. Deussing, W. Roth and C. Peters
Towards Specific Functions of Lysosomal Cysteine Peptidases: Phenotypes of Mice Deficient for Cathepsin B or Cathepsin L *382*, 735 – 741

Aptamer
Schürer, H., A. Buchynskyy, K. Korn, M. Famulok, P. Welzel and U. Hahn
Fluorescence Correlation Spectroscopy as a New Method for the Investigation of Aptamer/Target Interactions *382*, 479 – 481

Sooter. L.J., T. Riedel, E.A. Davidson, M. Levy, J.C. Cox and A.D. Ellington
Toward Automated Nucleic Acid Enzyme Selection *382*, 1327 – 1334

Arg-gingipain
Baba, A., N. Abe, T. Kadowaki, H. Nakanishi, M. Ohishi, T. Asao and K. Yamamoto
Arg-Gingipain Is Responsible for the Degradation of Cell Adhesion Molecules of Human Gingival Fibroblasts and Their Death Induced by *Porphyromonas gingivalis 382*, 817 – 824

Atomic force microscopy (AFM)
Bonin, M., J. Oberstrass, U. Vogt, M. Wassenegger and W. Nellen
Binding of IRE-BP to Its Cognate RNA Sequence: SFM Studies on a Universal RNA Backbone for the Analysis of RNA-Protein Interaction *382*, 1157 – 1162

Kellmann, J.-W., P. Liebisch, K.-P. Schmitz and B. Piechulla
Visual Representation by Atomic Force Microscopy (AFM) of Tomato Spotted Wilt Virus Ribonucleoproteins *382*, 1559 – 1562

ATP synthase
Lee, I., E. Bender, S. Arnold and B. Kadenbach
New Control of Mitochondrial Membrane Potential and ROS Formation – A Hypothesis *382*, 1629 – 1636

ATPase
Bissig, K.-D., S. La Fontaine, J.F.B. Mercer and M. Solioz
Expression of the Human Menkes ATPase in *Xenopus laevis* Oocytes *382*, 711 – 714

Palm, T., C. Coan and W.E. Trommer
Nucleotide-Binding Sites in the Functional Unit of Sarcoplasmic Reticulum Ca^{2+}-ATPase as Studied by Photoaffinity Spin-Labeled 2-N_3-SL-ATP *382*, 417 – 423

Auxin
Zwerger, K. and H. Hirt
Recent Advances in Plant MAP Kinase Signalling *382*, 1123 – 1131

Bacteriophage K3
Čamaj, P., A.E. Hirsh, W. Schmidt, A. Meinke and A. von Gabain
Ligand-Mediated Protection against Phage Lysis as a Positive Selection Strategy for the Enrichment of Epitopes Displayed on the Surface of *E. coli* Cells *382*, 1669 – 1677

Bacteriophage T4
van Raaij, M.J., G. Schoehn, M. Jaquinod, K. Ashman, M.R. Burda and S. Miller
Identification and Crystallisation of a Heat- and Protease-Stable Fragment of the Bacteriophage T4 Short Tail Fibre *382*, 1049 – 1055

$(\beta\alpha)_8$-Barrel
Henn-Sax, M., B. Höcker, M. Wilmanns and R. Sterner
Divergent Evolution of $(\beta\alpha)_8$-Barrel Enzymes *382*, 1315 – 1320

β-Carotene
Briviba, K., K. Schnäbele, E. Schwertle, M. Blockhaus and G. Rechkemmer
β-Carotene Inhibits Growth of Human Colon Carcinoma Cells *in Vitro* by Induction of Apoptosis *382*, 1663 – 1668

β-Galactosidase
Zervosen, A., V. Nieder, R. Gutiérrez Gallego, J.P. Kamerling, J.F.G. Vliegenthart and L. Elling
Synthesis of Nucleotide-Activated Oligosaccharides by β-Galactosidase from *Bacillus circulans 382*, 299 – 311

Bone morphogenic protein (BMP)
Knaus, P. and W. Sebald
Cooperativity of Binding Epitopes and Receptor Chains in the BMP/TGFβ Superfamily *382*, 1189 – 1195

Bovine leukemia virus
Bondzio, A., A. Abraham-Podgornik, P. Blankenstein and S. Risse
Involvement of Intracellular Ca^{2+} in the Regulation of Bovine Leukemia Virus Expression *382*, 407 – 416

Bradykinin
Araújo, R.C., R. Kettritz, I. Fichtner, A.C.M. Paiva, J.B. Pesquero and M. Bader
Altered Neutrophil Homeostasis in Kinin B1 Receptor-Deficient Mice *382*, 91 – 95

Cuthbert, A.W.
Kinins and Epithelial Ion Transport in the Alimentary Tract *382*, 57 – 60

Dedio, J., G. Wiemer, H. Rütten, A. Dendorfer, B.A. Schölkens, W. Müller-Esterl and P. Wohlfart
Tissue Kallikrein KLK1 Is Expressed *de Novo* in Endothelial Cells and Mediates Relaxation of Human Umbilical Veins *382*, 1483 – 1490

Erdös, E.G. and B.M. Marcic
Kinins, Receptors, Kinases and Inhibitors – Where Did They Lead Us? *382*, 43 – 47

Hess, J.F., P.J. Hey, T.-B. Chen, J. O'Brien, S.S. Omalley, D.J. Pettibone and R.S.L. Chang
Molecular Cloning and Pharmacological Characterization of the Canine B1 and B2 Bradykinin Receptors *382*, 123 – 129

Kusser, B., A. Braun, M. Praun, S. Illi, E. von Mutius and A.A. Roscher
Polymorphisms in the Bradykinin B2 Receptor Gene and Childhood Asthma *382*, 885 – 889

Liebmann, C.
Bradykinin Signalling to MAP Kinase: Cell-Specific Connections *versus* Principle Mitogenic Pathways *382*, 49 – 55

Marceau, F., A. Adam, S. Houle, J. Bouthillier, M. Bachvarova and D.R. Bachvarov
Ligand-Mediated Regulation of Kinin Receptors in the Rabbit *382*, 131 – 133

Stewart, J.M., L. Gera, E.J. York, D.C. Chan, E.C. Whalley, P.A. Bunn Jr. and R.J. Vavrek
Metabolism-Resistant Bradykinin Antagonists: Development and Applications *382*, 37–41

Cajal body
Kaser, A., E. Bogengruber, M. Hallegger, E. Doppler, G. Lepperdinger, M. Jantsch, M. Breitenbach and G. Kreil
Brix From *Xenopus laevis* and Brx1p From Yeast Define a New Family of Proteins Involved in the Biogenesis of Large Ribosomal Subunits *382*, 1637–1647

Calmodulin
Reverter, D., S. Strobl, C. Fernandez-Catalan, H. Sorimachi, K. Suzuki and W. Bode
Structural Basis for Possible Calcium-Induced Activation Mechanisms of Calpains *382*, 753–766

Calpain
Cottin, P., V.F. Thompson, S.K. Sathe, A. Szpacenko and D.E. Goll
Autolysis of μ- and m-Calpain from Bovine Skeletal Muscle *382*, 767–776

Gabrijelcic-Geiger, D., R. Mentele, B. Meisel, H. Hinz, I. Assfalg-Machleidt, W. Machleidt, A. Möller and E.A. Auerswald
Human μ-Calpain: Simple Isolation from Erythrocytes and Characterization of Autolysis Fragments *382*, 1733–1737

Ozaki, Y., K. Blomgren, M.S. Ogasawara, K. Aoki, T. Furuno, M. Nakanishi, M. Sasaki and K. Suzumori
Role of Calpain in Human Sperm Activated by Progesterone for Fertilization *382*, 831–838

Reverter, D., S. Strobl, C. Fernandez-Catalan, H. Sorimachi, K. Suzuki and W. Bode
Structural Basis for Possible Calcium-Induced Activation Mechanisms of Calpains *382*, 753–766

Calpastatin
García Díaz, B., S. Gross, I. Assfalg-Machleidt, D. Pfeiler, N. Gollmitzer, D. Gabrijelcic-Geiger, M.T. Stubbs, H. Fritz, E.A. Auerswald and W. Machleidt
Cystatins as Calpain Inhibitors: Engineered Chicken Cystatin- and Stefin B-Kininogen Domain 2 Hybrids Support a Cystatin-Like Mode of Interaction with the Catalytic Subunit of μ-Calpain *382*, 97–107

Casein kinase II
Ehrnsperger, C., and W. Volknandt
Major Vault Protein Is a Substrate of Endogenous Protein Kinases in CHO and PC12 Cells *382*, 1463–1471

Catechol 1,2 dioxygenase
Pessione, E., M.G. Giuffrida, R. Mazzoli, P. Caposio, S. Landolfo, A. Conti, C. Giunta and G. Gribaudo
The Catechol 1,2 Dioxygenase System of *Acinetobacter radioresistens*: Isoenzymes, Inductors and Gene Localisation *382*, 1253–1261

Cathepsin
Abudula, A., W. Rommerskirch, E. Weber, D. Günther and B. Wiederanders
Splice Variants of Human Cathepsin L mRNA Show Different Expression Rates *382*, 1583–1591

Brix, K., M. Linke, C. Tepel and V. Herzog
Cysteine Proteinases Mediate Extracellular Prohormone Processing in the Thyroid *382*, 717–725

de Oliveira, C., L.A. Santana, A.K. Carmona, M.H. Cezari, M.U. Sampaio, C.A.M. Sampaio and M.L.V. Oliva
Structure of Cruzipain/Cruzain Inhibitors Isolated from *Bauhinia bauhinioides* Seeds *382*, 847–852

Desmazes, C., F. Gauthier and G. Lalmanach
Cathepsin L, But Not Cathepsin B, Is a Potential Kininogenase *382*, 811–815

Kopitar-Jerala, N., T. Bevec, D. Barlič-Maganja, F. Gubenšek and V. Turk
Anti-Cathepsin L Monoclonal Antibodies That Distinguish Cathepsin L from Cathepsin V *382*, 867–870

Ménard, R., C. Therrien, P. Lachance, T. Sulea, H. Qi, A. Alvarez-Hernandez and W.R. Roush
Cathepsins X and B Display Distinct Activity Profiles That Can Be Exploited for Inhibitor Design *382*, 839–845

Premzl, A., V. Puizdar, V. Zavašnik-Bergant, N. Kopitar-Jerala, T.T. Lah, N. Katunuma, B.F. Sloane, V. Turk and J. Kos
Invasion of *ras*-Transformed Breast Epithelial Cells Depends on the Proteolytic Activity of Cysteine and Aspartic Proteinases *382*, 853–857

Sameni, M., J. Dosescu and B.F. Sloane
Imaging Proteolysis by Living Human Glioma Cells *382*, 785–788

Schilling, K., S. Pietschmann, M. Fehn, I. Wenz and B. Wiederanders
Folding Incompetence of Cathepsin L-Like Cysteine Proteases May Be Compensated by the Highly Conserved, Domain-Building N-Terminal Extension of the Proregion *382*, 859–865

Zavašnik-Bergant, V., A. Sekirnik, R. Golouh, V. Turk and J. Kos
Immunochemical Localisation of Cathepsin S, Cathepsin L and MHC Class II-Associated p41 Isoform of Invariant Chain in Human Lymph Node Tissue *382*, 799–804

Zore, I., M. Krašovec, N. Cimerman, R. Kuhelj, B. Werle, H.J. Nielsen, N. Brünner and J. Kos
Cathepsin B/Cystatin C Complex Levels in Sera from Patients with Lung and Colorectal Cancer *382*, 805–810

Chancroid infection
Odhav, B., A. Hoosen and W. Sturm
Neutrophil Degranulation Induced by *Haemophilus ducreyi* 392, 825–830

Chemokine
Klier, C.M., E.L. Nelson, C.D. Cohen, R. Horuk, D. Schlöndorff and P.J. Nelson
Chemokine-Induced Secretion of Gelatinase B in Primary Human Monocytes *382*, 1405–1410

Müller, G. and M. Lipp
Signal Transduction by the Chemokine Receptor CXCR5: Structural Requirements for G Protein Activation Analyzed by Chimeric CXCR1/CXCR5 Molecules *382*, 1387–1397

Chlorophyll
Matysik, J., E. Schulten, Alia, P. Gast, J. Raap, J. Lugtenburg, A.J. Hoff and H.J.M. de Groot
Photo-CIDNP ^{13}C Magic Angle Spinning NMR on Bacterial Reaction Centres: Exploring the Electronic Structure of the Special Pair and Its Surroundings *382*, 1271–1276

Chlorophyll synthase
Schmid, H.C., U. Oster, J. Kögel, S. Lenz and W. Rüdiger
Cloning and Characterisation of Chlorophyll Synthase from *Avena sativa* *382*, 903–911

Chrysancorin
Wang, H., X.Y. Ye and T.B. Ng
Purification of Chrysancorin, a Novel Antifungal Protein with Mitogenic Activity from Garland Chrysanthemum Seeds *382*, 947–951

Coenzyme Q
Battino, M., S. Bompadre, L. Leone, R.F. Villa and A. Gorini
Coenzymes Q_9 and Q_{10}, Vitamin E and Peroxidation in Rat Synaptic and Non-Synaptic Occipital Cerebral Cortex Mitochondria during Ageing *382*, 925–931

Complement factor I
Schlaf, G., T. Demberg, M. Koleva, K. Jungermann and O. Götze
Complement Factor I Is Upregulated in Rat Hepatocytes by Interleukin-6 But Not by Interferon-γ, Interleukin-1β or Tumor Necrosis Factor-α *382*, 1089–1094

Connexin
Söhl, G., J. Eiberger, Y.T. Jung, C.A. Kozak and K. Willecke
The Mouse Gap Junction Gene Connexin29 Is Highly Expressed in Sciatic Nerve and Regulated during Brain Development *382*, 973–978

4-Coumarate:coenzyme A ligase
Cukovic, D., J. Ehlting, J.A. VanZiffle and C.J. Douglas
Structure and Evolution of 4-Coumarate:Coenzyme A Ligase (*4CL*) Gene Families *382*, 645–654

Cruzipain
de Oliveira, C., L.A. Santana, A.K. Carmona, M.H. Cezari, M.U. Sampaio, C.A.M. Sampaio and M.L.V. Oliva
Structure of Cruzipain/Cruzain Inhibitors Isolated from *Bauhinia bauhinioides* Seeds *382*, 847–852

Cystatin C
Zore, I., M. Krašovec, N. Cimerman, R. Kuhelj, B. Werle, H.J. Nielsen, N. Brünner and J. Kos
Cathepsin B/Cystatin C Complex Levels in Sera from Patients with Lung and Colorectal Cancer *382*, 805–810

Cysteine knot motif
Amoresano, A., S. Orrù, R.A. Siciliano, E. De Luca, R. Napoleoni, A. Sirna and P. Pucci
Assignment of the Complete Disulphide Bridge Pattern in the Human Recombinant Follitropin β-Chain *382*, 961–968

Cytochrome c oxidase
Lee, I., E. Bender, S. Arnold and B. Kadenbach
New Control of Mitochondrial Membrane Potential and ROS Formation – A Hypothesis *382*, 1629–1636

Cytochrome P450
Winter, J., C. Eckerskorn, R. Waditschatka and H. Kayser
A Microsomal Ecdysone-Binding Cytochrome P450 from the Insect *Locusta migratoria* Purified by Sequential Use of Type-II and Type-I Ligands *382*, 1541–1549

Cytokeratin I
Joseph, K., B. Ghebrehiwet and A.P. Kaplan
Activation of the Kinin-Forming Cascade on the Surface of Endothelial Cells *382*, 71–75

Cytokine receptor
Friedrich, K. and S. Wietek
Experimental Regulation of STAT Gene Expression Reveals an Involvement of STAT5 in Interleukin-4-Driven Cell Proliferation *382*, 343–351

Cytosine N^4-methyltransferase
Jeltsch, A.
The Cytosine N^4-Methyltransferase M.*Pvu*II Also Modifies Adenine Residues *382*, 707–710

Decarboxylase, aromatic amino acid
Tang, L. and G. Frank
Identification and Characterization of an Aromatic Amino Acid Decarboxylase from the Filarial Nematode, *Dirofilaria immitis* *382*, 115–122

Deoxyribozyme
Sooter, L.J., T. Riedel, E.A. Davidson, M. Levy, J.C. Cox and A.D. Ellington
Toward Automated Nucleic Acid Enzyme Selection *382*, 1327–1334

DNA methylation
Jeltsch, A.
The Cytosine N^4-Methyltransferase M.*Pvu*II Also Modifies Adenine Residues *382*, 707–710

Niller, H.H., D. Salamon, M. Takacs, J. Uhlig, H. Wolf and J. Minarovits
Protein-DNA Interaction and CpG Methylation at rep*/vIL-10p of Latent Epstein-Barr Virus Genomes in Lymphoid Cell Lines *382*, 1411–1419

Takacs, M., D. Salamon, S. Myöhänen, H. Li, J. Segesdi, D. Ujvari, J. Uhlig, H.-H. Niller, H. Wolf, G. Berencsi and J. Minarovits
Epigenetics of Latent Epstein-Barr Virus Genomes: High Resolution Methylation Analysis of the Bidirectional Promoter Region of Latent Membrane Protein 1 and 2B Genes *382*, 699–705

DNA replication
Niller, H.H., D. Salamon, M. Takacs, J. Uhlig, H. Wolf and J. Minarovits
Protein-DNA Interaction and CpG Methylation at rep*/vIL-10p of Latent Epstein-Barr Virus Genomes in Lymphoid Cell Lines *382*, 1411–1419

Drug delivery system
Delie, F., R. Gurny and A. Zimmer
Fluorescence Correlation Spectroscopy for the Characterisation of Drug Delivery Systems *382*, 487–490

Duocalin
Schlehuber, S. and A. Skerra
Duocalins: Engineered Ligand-Binding Proteins with Dual Specificity Derived from the Lipocalin Fold *382*, 1335–1342

Ecdysteroid
Winter, J., C. Eckerskorn, R. Waditschatka and H. Kayser
A Microsomal Ecdysone-Binding Cytochrome P450 from the Insect *Locusta migratoria* Purified by Sequential Use of Type-II and Type-I Ligands *382*, 1541–1549

Endocytosis
Kobayashi, T., K. Startchev, A.J. Whitney and J. Gruenberg
Localization of Lysobisphosphatidic Acid-Rich Membrane Domains in Late Endosomes *382*, 483–485

Sameni, M., J. Dosescu and B.F. Sloane
Imaging Proteolysis by Living Human Glioma Cells *382*, 785–788

Endosymbiosis
Martin, W., M. Hoffmeister, C. Rotte and K. Henze
An Overview of Endosymbiotic Models for the Origins of Eukaryotes, Their ATP-Producing Organelles (Mitochondria and Hydrogenosomes), and Their Heterotrophic Lifestyle *382*, 1521–1539

Endotoxin
Brandenburg, K., G. Jürgens, M. Müller, S. Fukuoka and M.H.J. Koch
Biophysical Characterization of Lipopolysaccharide and Lipid A Inactivation by Lactoferrin *382*, 1215–1225

Epidermal growth factor
Hackel, P.O., M. Gishizky and A. Ullrich

Mig-6 Is a Negative Regulator of the Epidermal Growth Factor Receptor Signal *382*, 1649 – 1662

Epstein-Barr virus
Niller, H.H., D. Salamon, M. Takacs, J. Uhlig, H. Wolf and J. Minarovits
Protein-DNA Interaction and CpG Methylation at rep*/vIL-10p of Latent Epstein-Barr Virus Genomes in Lymphoid Cell Lines *382*, 1411 – 1419

Takacs, M., D. Salamon, S. Myöhänen, H. Li, J. Segesdi, D. Ujvari, J. Uhlig, H.-H. Niller, H. Wolf, G. Berencsi and J. Minarovits
Epigenetics of Latent Epstein-Barr Virus Genomes: High Resolution Methylation Analysis of the Bidirectional Promoter Region of Latent Membrane Protein 1 and 2B Genes *382*, 699 – 705

Erythropoiesis
Hokari, S., T. Miyazaki, M. Hasegawa, I. Koyama and T. Komoda
Chicken Erythrocyte Pyrimidine 5'-Nucleotidase: Purification and Characterization of the Subclass I Enzyme *382*, 919 – 924

Evolutionary genomics
Bornholdt, S.
Modeling Genetic Networks and Their Evolution: A Complex Dynamical Systems Perspective *382*, 1289 – 1299

Factor XII
Joseph, K., B. Ghebrehiwet and A.P. Kaplan
Activation of the Kinin-Forming Cascade on the Surface of Endothelial Cells *382*, 71 – 75

Fatty acid synthase
Wolf, S.S., K. Roder, S. Sickinger and M. Schweizer
The FIRE3-Mediated Sterol Response of the FAS Promoter Requires NF-Y/CBF as a Coactivator *382*, 1083 – 1088

Ferredoxin
Janssen, S., J. Trincão, M. Teixeira, G. Schäfer and S. Anemüller
Ferredoxins from the Archaeon *Acidianus ambivalens:* Overexpression and Characterization of the Non-Zinc-Containing Ferredoxin FdB *382*, 1501 – 1507

Fibronectin
Baba, A., N. Abe, T. Kadowaki, H. Nakanishi, M. Ohishi, T. Asao and K. Yamamoto
Arg-Gingipain Is Responsible for the Degradation of Cell Adhesion Molecules of Human Gingival Fibroblasts and Their Death Induced by *Porphyromonas gingivalis 382*, 817 – 824

Fibronectinase
Schnepel, J., J. Unger and H. Tschesche
Recombinant Cryptic Human Fibronectinase Cleaves Actin and Myosin: Substrate Specificity and Possible Role in Muscular Dystrophy *382*, 1707 – 1714

Flavonoid
Schewe, T., C. Sadik, L.-O. Klotz, T. Yoshimoto, H. Kühn and H. Sies
Polyphenols of Cocoa: Inhibition of Mammalian 15-Lipoxygenase *382*, 1687 – 1696

Fluorescence correlation spectroscopy
Casoli, A. and M. Schönhoff
Fluorescence Correlation Spectroscopy as a Tool to Investigate Single Molecule Probe Dynamics in Thin Polymer Films *382*, 363 – 369

Czerney, P., F. Lehmann, M. Wenzel, V. Buschmann, A. Dietrich and G.J. Mohr
Tailor-Made Dyes for Fluorescence Correlation Spectroscopy (FCS) *382*, 495 – 498

Delie, F., R. Gurny and A. Zimmer
Fluorescence Correlation Spectroscopy for the Characterisation of Drug Delivery Systems *382*, 487 – 490

Dittrich, P., F. Malvezzi-Campeggi, M. Jahnz and P. Schwille
Accessing Molecular Dynamics in Cells by Fluorescence Correlation Spectroscopy *382*, 491 – 494

Kobayashi, T., K. Startchev, A.J. Whitney and J. Gruenberg
Localization of Lysobisphosphatidic Acid-Rich Membrane Domains in Late Endosomes *382*, 483 – 485

Neumann, T., S.O. Kirschstein, J.A. Camacho Gomez, L. Kittler and E. Unger
Determination of the Net Exchange Rate of Tubulin Dimer in Steady-State Microtubules by Fluorescence Correlation Spectroscopy *382*, 387 – 391

Pramanik, A. and R. Rigler
Ligand-Receptor Interactions in the Membrane of Cultured Cells Monitored by Fluorescence Correlation Spectroscopy *382*, 371 – 378

Schürer, H., A. Buchynskyy, K. Korn, M. Famulok, P. Welzel and U. Hahn
Fluorescence Correlation Spectroscopy as a New Method for the Investigation of Aptamer/Target Interactions *382*, 479 – 481

Van Craenenbroeck, E., J. Vercammen, G. Matthys, J. Beirlant, C. Marot, J. Hoebeke, R. Strobbe and Y. Engelborghs
Heuristic Statistical Analysis of Fluorescence Fluctuation Data with Bright Spikes: Application to Ligand Binding to the Human Serotonin Receptor Expressed in *Escherichia coli* Cells *382*, 355 – 361

Van Rompaey, E., Y. Chen, J.D. Müller, E. Gratton, E. Van Craenenbroeck, Y. Engelborghs, S. De Smedt and J. Demeester
Fluorescence Fluctuation Analysis for the Study of Interactions between Oligonucleotides and Polycationic Polymers *382*, 379 – 386

Wennmalm, S., H. Blom, L. Wallerman and R. Rigler
UV-Fluorescence Correlation Spectroscopy of 2-Aminopurine *382*, 393 – 397

Follitropin
Amoresano, A., S. Orrù, R.A. Siciliano, E. De Luca, R. Napoleoni, A. Sirna and P. Pucci
Assignment of the Complete Disulphide Bridge Pattern in the Human Recombinant Follitropin β-Chain *382*, 961 – 968

Fucosyl oligosaccharide
Suzuki, M. and A. Suzuki
Structural Characterization of Fucose-Containing Oligosaccharides by High-Performance Liquid Chromatography and Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry *382*, 251 – 257

G-4 DNA
Simonsson, T.
G-Quadruplex DNA Structures – Variations on a Theme *382*, 621 – 628

GABA receptor
Enz, R.
$GABA_C$ Receptors: A Molecular View *328*, 1111 – 1122

Grosskreutz, Y., A. Hermann, S. Kins, J.C. Fuhrmann, H. Betz and M. Kneussel
Identification of a Gephyrin-Binding Motif in the GDP/GTP Exchange Factor Collybistin *382*, 1455 – 1462

Ganglioside
Komba, S., M. Yamaguchi, H. Ishida and M. Kiso
6-*O*-Sulfo De-*N*-Acetylsialyl Lewis X as a Novel High-Affinity Ligand for Human L-Selectin: Total Synthesis and Structural Characterization *382*, 233 – 240

Vukelić, Ž., W. Metelmann, J. Müthing, M. Kos and J. Peter-Katalinić
Anencephaly: Structural Characterization of Gangliosides in Defined Brain Regions *382*, 259 – 274

Vyas, K.A., H.V. Patel, A.A. Vyas and R.L. Schnaar
Segregation of Gangliosides GM1 and GD3 on Cell Membranes, Isolated Membrane Rafts, and Defined Supported Lipid Monolayers *382*, 241 – 250

Gelatinase
Grams, F., H. Brandstetter, S. D'Alò, D. Geppert, H.-W. Krell, H. Leinert, V. Livi, E. Menta, A. Oliva and G. Zimmermann
Pyrimidine-2,4,6-Triones: A New Effective and Selective Class of Matrix Metalloproteinase Inhibitors *382*, 1277 – 1285

Klier, C.M., E.L. Nelson, C.D. Cohen, R. Horuk, D. Schlöndorff and P.J. Nelson
Chemokine-Induced Secretion of Gelatinase B in Primary Human Monocytes *382*, 1405 – 1410

Smolian, H., A. Aurer, M. Sittinger, J. Zacher, J.-P. Bernimoulin, G.-R. Burmester and H. Kolkenbrock
Secretion of Gelatinases and Activation of Gelatinase A (MMP-2) by Human Rheumatoid Synovial Fibroblasts *382*, 1491 – 1499

Geldanamycin
Rosenhagen, M.C., J.C. Young, G.M. Wochnik, A.S. Herr, U. Schmidt, F.U. Hartl, F. Holsboer and T. Rein
Synergistic Inhibition of the Glucocorticoid Receptor by Radicicol and Benzoquinone Ansamycins *382*, 499 – 504

Gene expression
Friedrich, K. and S. Wietek
Experimental Regulation of STAT Gene Expression Reveals an Involvement of STAT5 in Interleukin-4-Driven Cell Proliferation *382*, 343 – 351

Takacs, M., D. Salamon, S. Myöhänen, H. Li, J. Segesdi, D. Ujvari, J. Uhlig, H.-H. Niller, H. Wolf, G. Berencsi and J. Minarovits
Epigenetics of Latent Epstein-Barr Virus Genomes: High Resolution Methylation Analysis of the Bidirectional Promoter Region of Latent Membrane Protein 1 and 2B Genes *382*, 699 – 705

Tasara, T., M.O. Hottiger and U. Hübscher
Functional Genomics in HIV-1 Virus Replication: Protein-Protein Interactions as a Basis for Recruiting the Host Cell Machinery for Viral Propagation *382*, 993 – 999

Wagner, G., K. Stettmaier, W. Bors, H. Sies, E.-M. Wagner, A. Reuter and H. Weiher
Enhanced Gamma-Glutamyl Transpeptidase Expression and Superoxide Production in Mpv17$^{-/-}$ Glomerulosclerosis Mice *382*, 1019 – 1025

Gene structure
Clements, J., J. Hooper, Y. Dong and T. Harvey
The Expanded Human Kallikrein (*KLK*) Gene Family: Genomic Organisation, Tissue-Specific Expression and Potential Functions *382*, 5 – 14

Leontiadou, F., D. Triantafillidou and T. Choli-Papadopoulou
On the Characterization of the Putative S20-Thx Operon of *Thermus thermophilus 382*, 1001 – 1006

Gene therapy
Weiss, S. and S. Krusch
Bacteria-Mediated Transfer of Eukaryotic Expression Plasmids into Mammalian Host Cells *382*, 533 – 541

Genetic algorithm
Budin, N., N. Majeux and A. Caflisch
Fragment-Based Flexible Ligand Docking by Evolutionary Optimization *382*, 1365 – 1372

Genetic network
Bornholdt, S.
Modeling Genetic Networks and Their Evolution: A Complex Dynamical Systems Perspective *382*, 1289 – 1299

Gephyrin
Grosskreutz, Y., A. Hermann, S. Kins, J.C. Fuhrmann, H. Betz and M. Kneussel
Identification of a Gephyrin-Binding Motif in the GDP/GTP Exchange Factor Collybistin *382*, 1455 – 1462

Gingipain
Banbula, A., P. Mak, M. Smoluch, J. Travis and J. Potempa
Arginine-Specific Cysteine Proteinase from *Porphyromonas gingivalis* as a Convenient Tool in Protein Chemistry *382*, 1399 – 1404

Globotriaosylceramide
Wuhrer, M., C. Berkefeld, R.D. Dennis, M.A Idris and R. Geyer
The Liver Flukes *Fasciola gigantica* and *Fasciola hepatica* Express the Leucocyte Cluster of Differentiation Marker CD77 (Globotriaosylceramide) in Their Tegument *382*, 195 – 207

Glomerulopathy
Wagner, G., K. Stettmaier, W. Bors, H. Sies, E.-M. Wagner, A. Reuter and H. Weiher
Enhanced Gamma-Glutamyl Transpeptidase Expression and Superoxide Production in Mpv17$^{-/-}$ Glomerulosclerosis Mice *382*, 1019 – 1025

Glucocorticoid
Myöhänen, H., I. Virtanen and A. Vaheri
Elimination of Hydrocortisone from the Medium Enables Tissue Plasminogen Activator Gene Expression by Normal and Immortalized Nonmalignant Human Epithelial Cells *382*, 1563 – 1573

Glucocorticoid receptor
Rosenhagen, M.C., J.C. Young, G.M. Wochnik, A.S. Herr, U. Schmidt, F.U. Hartl, F. Holsboer and T. Rein
Synergistic Inhibition of the Glucocorticoid Receptor by Radicicol and Benzoquinone Ansamycins *382*, 499 – 504

Glucose transporter
Monden, I., A. Olsowski, G. Krause and K. Keller
The Large Cytoplasmic Loop of the Glucose Transporter GLUT1 Is an Essential Structural Element for Function *382*, 1551 – 1558

Glycine receptor
Grosskreutz, Y., A. Hermann, S. Kins, J.C. Fuhrmann, H. Betz and M. Kneussel
Identification of a Gephyrin-Binding Motif in the GDP/GTP Exchange Factor Collybistin *382*, 1455 – 1462

Glycoprotein
Albach, C., R.A. Klein and B. Schmitz
Do Rodent and Human Brains Have Different N-Glycosylation Patterns? *382*, 187 – 194

Hanisch, F.-G.
O-Glycosylation of the Mucin Type *382*, 143 – 149

Marchal, I., D.L. Jarvis, R. Cacan and A. Verbert
Glycoproteins from Insect Cells: Sialylated or Not? *382*, 151–159

Marquardt, T. and H. Freeze
Congenital Disorders of Glycosylation: Glycosylation Defects in Man and Biological Models for Their Study *382*, 161–177

Sarkar, M. and H. Schachter
Cloning and Expression of *Drosophila melanogaster* UDP-GlcNAc:α-3-D-Mannoside β1,2-N-Acetylglucosaminyltransferase I *382*, 209–217

Glycosidase
Zervosen, A., V. Nieder, R. Gutiérrez Gallego, J.P. Kamerling, J.F.G. Vliegenthart and L. Elling
Synthesis of Nucleotide-Activated Oligosaccharides by β-Galactosidase from *Bacillus circulans* *382*, 299–311

Glycosyltransferase
Brockhausen, I., J. Yang, M. Lehotay, S. Ogata and S. Itzkowitz
Pathways of Mucin *O*-Glycosylation in Normal and Malignant Rat Colonic Epithelial Cells Reveal a Mechanism for Cancer-Associated Sialyl-Tn Antigen Expression *382*, 219–232

G protein
Danker, K., N. Mechai, L. Lucka, W. Reutter and R. Horstkorte
The Small GTPase Ras Is Involved in Growth Factor-Regulated Expression of the α1 Integrin Subunit in PC12 Cells *382*, 969–972

Müller, G. and M. Lipp
Signal Transduction by the Chemokine Receptor CXCR5: Structural Requirements for G Protein Activation Analyzed by Chimeric CXCR1/CXCR5 Molecules *382*, 1387–1397

Sato, K. and S. Kawashima
Calpain Function in the Modulation of Signal Transduction Molecules *382*, 743–751

Völkert, M., M. Wagner, C. Peters and H. Waldmann
The Chemical Biology of Ras Lipidation *382*, 1133–1145

Green fluorescent protein
Bissig, K.-D., S. La Fontaine, J.F.B. Mercer and M. Solioz
Expression of the Human Menkes ATPase in *Xenopus laevis* Oocytes *382*, 711–714

Dittrich, P., F. Malvezzi-Campeggi, M. Jahnz and P. Schwille
Accessing Molecular Dynamics in Cells by Fluorescence Correlation Spectroscopy *382*, 491–494

Guanylate cyclase
Li, N., I. Sokal, J.D. Bronson, K. Palczewski and W. Baehr
Identification of Functional Regions of Guanylate Cyclase-Activating Protein 1 (GCAP1) Using GCAP1/GCIP Chimeras *382*, 1179–1188

Hammerhead ribozyme
Feng, Y., Y.-y. Kong, Y. Wang and G.-r. Qi
Inhibition of Hepatitis B Virus by Hammerhead Ribozyme Targeted to the Poly(A) Signal Sequence in Cultured Cells *382*, 655–660

Heat shock protein
Schaffitzel, E., S. Rüdiger, B. Bukau and E. Deuerling
Functional Dissection of Trigger Factor and DnaK: Interactions with Nascent Polypeptides and Thermally Denatured Proteins *382*, 1235–1243

Singh-Jasuja, H., N. Hilf, D. Arnold-Schild and H. Schild
The Role of Heat Shock Proteins and Their Receptors in the Activation of the Immune System *382*, 629–636

Hepatitis B virus
Feng, Y., Y.-y. Kong, Y. Wang and G.-r. Qi
Inhibition of Hepatitis B Virus by Hammerhead Ribozyme Targeted to the Poly(A) Signal Sequence in Cultured Cells *382*, 655–660

Schirmbeck, R. and J. Reimann
Revealing the Potential of DNA-Based Vaccination: Lessons Learned from the Hepatitis B Virus Surface Antigen *382*, 543–552

Histatin
Van't Hof, W., E.C.I. Veerman, E.J. Helmerhorst and A.V. Nieuw Amerongen
Antimicrobial Peptides: Properties and Applicability *382*, 597–619

Histidine biosynthesis
Henn-Sax, M., B. Höcker, M. Wilmanns and R. Sterner
Divergent Evolution of $(\beta\alpha)_8$-Barrel Enzymes *382*, 1315–1320

Histone deacetylation
Lorenz, P., D. Koczan and H.-J. Thiesen
Transcriptional Repression Mediated by the KRAB Domain of the Human C_2H_2 Zinc Finger Protein Kox1/ZNF10 Does Not Require Histone Deacetylation *382*, 637–644

Thiel, G., M. Lietz, K. Bach, L. Guethlein and G. Cibelli
Biological Activity of Mammalian Transcriptional Repressors *382*, 891–902

HIV-1 protease
Budin, N., N. Majeux and A. Caflisch
Fragment-Based Flexible Ligand Docking by Evolutionary Optimization *382*, 1365–1372

Human immunodeficiency virus (HIV)
Tasara, T., M.O. Hottiger and U. Hübscher
Functional Genomics in HIV-1 Virus Replication: Protein-Protein Interactions as a Basis for Recruiting the Host Cell Machinery for Viral Propagation *382*, 993–999

Hydrogenosome
Martin, W., M. Hoffmeister, C. Rotte and K. Henze
An Overview of Endosymbiotic Models for the Origins of Eukaryotes, Their ATP-Producing Organelles (Mitochondria and Hydrogenosomes), and Their Heterotrophic Lifestyle *382*, 1521–1539

Hydrogen peroxide
Armeni, T., M. Battino, A. Stronati, A. Pugnaloni, G. Tomassini, G. Rosi, G. Biagini and G. Principato
Total Antioxidant Capacity and Nuclear DNA Damage in Keratinocytes after Exposure to H_2O_2 *382*, 1697–1705

Hydrophobic interaction
Stevanovic, S. and P. Bohley
Proteome Analysis by Three-Dimensional Protein Separation: Turnover of Cytosolic Proteins in Hepatocytes *382*, 677–682

Insulin
Chen, H., and Y.-M. Feng
Toward Understanding the Role of Insulin α-Helix II in the Growth-Promoting Activity of Insulin *382*, 1057–1062

Guo, Z.-Y. and Y.-M. Feng
Effects of Cysteine to Serine Substitutions in the Two Inter-Chain Disulfide Bonds of Insulin *382*, 443–448

Schliess, F., S. vom Dahl and D. Häussinger
Insulin Resistance Induced by Loop Diuretics and Hyperosmolarity in Perfused Rat Liver *382*, 1063–1069

Insulin-like growth factor I
Chen, H., and Y.-M. Feng
Toward Understanding the Role of Insulin α-Helix II in the Growth-Promoting Activity of Insulin *382*, 1057–1062

Integrin
Baba, A., N. Abe, T. Kadowaki, H. Nakanishi, M. Ohishi, T. Asao and K. Yamamoto
Arg-Gingipain Is Responsible for the Degradation of Cell Adhesion Molecules of Human Gingival Fibroblasts and Their Death Induced by *Porphyromonas gingivalis* *382*, 817–824

Danker, K., N. Mechai, L. Lucka, W. Reutter and R. Horstkorte
The Small GTPase Ras Is Involved in Growth Factor-Regulated Expression of the α1 Integrin Subunit in PC12 Cells *382*, 969–972

Interleukin
Igaz, P., S. Bösze, S. Tóth, A. Falus and F. Hudecz
C-Terminal Peptides of Interleukin-6 Modulate the Expression of *junB* Protooncogene and the Production of Fibrinogen by HepG2 Cells *382*, 669–676

Schlaf, G., T. Demberg, M. Koleva, K. Jungermann and O. Götze
Complement Factor I Is Upregulated in Rat Hepatocytes by Interleukin-6 But Not by Interferon-γ, Interleukin-1β or Tumor Necrosis Factor-α *382*, 1089–1094

Interpolyelectrolyte complex
Van Rompaey, E., Y. Chen, J.D. Müller, E. Gratton, E. Van Craenenbroeck, Y. Engelborghs, S. De Smedt and J. Demeester
Fluorescence Fluctuation Analysis for the Study of Interactions between Oligonucleotides and Polycationic Polymers *382*, 379–386

***In viro* footprinting**
Dobner, T., D. Büchner, T. Zeller, H. Wolf and H.H. Niller
Specific Nucleoprotein Complexes within Adenovirus Capsids *382*, 1373–1377

Kallikrein
Araújo, R.C., R. Kettritz, I. Fichtner, A.C.M. Paiva, J.B. Pesquero and M. Bader
Altered Neutrophil Homeostasis in Kinin B1 Receptor-Deficient Mice *382*, 91–95

Bhoola, K., R. Ramsaroop, J. Plendl, B. Cassim, Z. Dlamini and S. Naicker
Kallikrein and Kinin Receptor Expression in Inflammation and Cancer *382*, 77–89

Clements, J., J. Hooper, Y. Dong and T. Harvey
The Expanded Human Kallikrein (*KLK*) Gene Family: Genomic Organisation, Tissue-Specific Expression and Potential Functions *382*, 5–14

Colman, R.W.
Role of the Light Chain of High Molecular Weight Kininogen in Adhesion, Cell-Associated Proteolysis and Angiogenesis *382*, 65–70

Dedio, J., G. Wiemer, H. Rütten, A. Dendorfer, B.A. Schölkens, W. Müller-Esterl and P. Wohlfart
Tissue Kallikrein KLK1 Is Expressed *de Novo* in Endothelial Cells and Mediates Relaxation of Human Umbilical Veins *382*, 1483–1490

Katori, M., M. Majima, I. Hayashi, T. Fujita and M. Yamanaka
Role of the Renal Kallikrein-Kinin System in the Development of Salt-Sensitive Hypertension *382*, 61–64

Oliva, M.L.V., E.M. Santomauro-Vaz, S.A. Andrade, M.A. Juliano, V. J. Pott, M.U. Sampaio and C.A.M. Sampaio
Synthetic Peptides and Fluorogenic Substrates Related to the Reactive Site Sequence of Kunitz-Type Inhibitors Isolated from *Bauhinia*: Interaction with Human Plasma Kallikrein *382*, 109–113

Kallistatin
Chao, J., R.Q. Miao, V. Chen, L.-M. Chen and L. Chao
Novel Roles of Kallistatin, a Specific Tissue Kallikrein Inhibitor, in Vascular Remodeling *382*, 15–21

Kininogen
Colman, R.W.
Role of the Light Chain of High Molecular Weight Kininogen in Adhesion, Cell-Associated Proteolysis and Angiogenesis *382*, 65–70

Desmazes, C., F. Gauthier and G. Lalmanach
Cathepsin L, But Not Cathepsin B, Is a Potential Kininogenase *382*, 811–815

García Díaz, B., S. Gross, I. Assfalg-Machleidt, D. Pfeiler, N. Gollmitzer, D. Gabrijelcic-Geiger, M.T. Stubbs, H. Fritz, E.A. Auerswald and W. Machleidt
Cystatins as Calpain Inhibitors: Engineered Chicken Cystatin- and Stefin B-Kininogen Domain 2 Hybrids Support a Cystatin-Like Mode of Interaction with the Catalytic Subunit of μ-Calpain *382*, 97–107

Joseph, K., B. Ghebrehiwet and A.P. Kaplan
Activation of the Kinin-Forming Cascade on the Surface of Endothelial Cells *382*, 71–75

Katori, M., M. Majima, I. Hayashi, T. Fujita and M. Yamanaka
Role of the Renal Kallikrein-Kinin System in the Development of Salt-Sensitive Hypertension *382*, 61–64

Kinin receptor
Araújo, R.C., R. Kettritz, I. Fichtner, A.C.M. Paiva, J.B. Pesquero and M. Bader
Altered Neutrophil Homeostasis in Kinin B1 Receptor-Deficient Mice *382*, 91–95

Bhoola, K., R. Ramsaroop, J. Plendl, B. Cassim, Z. Dlamini and S. Naicker
Kallikrein and Kinin Receptor Expression in Inflammation and Cancer *382*, 77–89

Blaukat, A. and I. Dikic
Activation of Sphingosine Kinase by the Bradykinin B_2 Receptor and Its Implication in Regulation of the ERK/MAP Kinase Pathway *382*, 135–139

Cuthbert, A.W.
Kinins and Epithelial Ion Transport in the Alimentary Tract *382*, 57–60

Hess, J.F., P.J. Hey, T.-B. Chen, J. O'Brien, S.S. Omalley, D.J. Pettibone and R.S.L. Chang
Molecular Cloning and Pharmacological Characterization of the Canine B1 and B2 Bradykinin Receptors *382*, 123–129

Marceau, F., A. Adam, S. Houle, J. Bouthillier, M. Bachvarova and D.R. Bachvarov
Ligand-Mediated Regulation of Kinin Receptors in the Rabbit *382*, 131–133

Regoli, D., A. Rizzi, S.I. Perron and F. Gobeil jr.
Classification of Kinin Receptors *382*, 31–35

Lactoferrin
Brandenburg, K., G. Jürgens, M. Müller, S. Fukuoka and M.H.J. Koch

Biophysical Characterization of Lipopolysaccharide and Lipid A Inactivation by Lactoferrin *382*, 1215 – 1225

Legumain
Chen, J.-M., M. Fortunato, R.A.E. Stevens and A.J. Barrett
Activation of Progelatinase A by Mammalian Legumain, a Recently Discovered Cysteine Proteinase *382*, 777 – 783

Rotari, V.I., P.M. Dando and A.J. Barrett
Legumain Forms from Plants and Animals Differ in Their Specificity *382*, 953 – 959

Lipocalin
Wojnar, P., W. van't Hof, P. Merschak, M. Lechner and B. Redl
The N-Terminal Part of Recombinant Human Tear Lipocalin/von Ebner's Gland Protein Confers Cysteine Proteinase Inhibition Depending on the Presence of the Entire Cystatin-Like Sequence Motifs *382*, 1515 – 1520

Lipopolysaccharide
Brandenburg, K., G. Jürgens, M. Müller, S. Fukuoka and M.H.J. Koch
Biophysical Characterization of Lipopolysaccharide and Lipid A Inactivation by Lactoferrin *382*, 1215 – 1225

Liposome
Linke, T., G. Wilkening, S. Lansmann, H. Moczall, O. Bartelsen, J. Weisgerber and K. Sandhoff
Stimulation of Acid Sphingomyelinase Activity by Lysosomal Lipids and Sphingolipid Activator Proteins *382*, 283 – 290

LPS-binding protein
Gutsmann, T., N. Haberer, S.F. Carroll, U. Seydel and A. Wiese
Interaction between Lipopolysaccharide (LPS), LPS-Binding Protein (LBP), and Planar Membranes *382*, 425 – 434

Lysosome
Du, P.-G., S. Kato, Y.-H. Li, T. Maeda, T. Yamane, S. Yamamoto, M. Fujiwara, Y. Yamamoto, K. Nishi and I. Ohkubo
Rat Tripeptidyl Peptidase I: Molecular Cloning, Functional Expression, Tissue Localization and Enzymatic Characterization *382*, 1715 – 1725

Odhav, B., A. Hoosen and W. Sturm
Neutrophil Degranulation Induced by *Haemophilus ducreyi* *382*, 825 – 830

Sameni, M., J. Dosescu and B.F. Sloane
Imaging Proteolysis by Living Human Glioma Cells *382*, 785 – 788

Malaria
Tsuji, M., E.G. Rodrigues and R.S. Nussenzweig
Progress toward a Malaria Vaccine: Efficient Induction of Protective Anti-Malaria Immunity *382*, 553 – 570

Mannosyltransferase
Sharma, C.B., R. Knauer and L. Lehle
Biosynthesis of Lipid-Linked Oligosaccharides in Yeast: the *ALG3* Gene Encodes the Dol-P-Man:$Man_5GlcNAc_2$-PP-Dol Mannosyltransferase *382*, 321 – 328

MAP kinase
Blaukat, A. and I. Dikic
Activation of Sphingosine Kinase by the Bradykinin B_2 Receptor and Its Implication in Regulation of the ERK/MAP Kinase Pathway *382*, 135 – 139

Bode, J.G., S. Ludwig, C.A. Correia Freitas, F. Schaper, M. Ruhl, S. Melmed, P.C. Heinrich and D. Häussinger
The MKK6/p38 Mitogen-Activated Protein Kinase Pathway Is Capable of Inducing SOCS3 Gene Expression and Inhibits IL-6-Induced Transcription *382*, 1447 – 1453

Kaufmann, K., K. Bach and G. Thiel
The Extracellular Signal-Regulated Protein Kinases Erk1/Erk2 Stimulate Expression and Biological Activity of the Transcriptional Regulator Egr-1 *382*, 1077 – 1081

Liebmann, C.
Bradykinin Signalling to MAP Kinase: Cell-Specific Connections *versus* Principle Mitogenic Pathways *382*, 49 – 55

Schliess, F., S. vom Dahl and D. Häussinger
Insulin Resistance Induced by Loop Diuretics and Hyperosmolarity in Perfused Rat Liver *382*, 1063 – 1069

Zwerger, K. and H. Hirt
Recent Advances in Plant MAP Kinase Signalling *382*, 1123 – 1131

Microtubules
Neumann, T., S.O. Kirschstein, J.A. Camacho Gomez, L. Kittler and E. Unger
Determination of the Net Exchange Rate of Tubulin Dimer in Steady-State Microtubules by Fluorescence Correlation Spectroscopy *382*, 387 – 391

Mithramycin
Vigneswaran, N., J. Thayaparan, J. Knops, J. Trent, V. Potaman, D.M. Miller and W. Zacharias
Intra- and Intermolecular Triplex DNA Formation in the Murine c-*myb* Proto-Oncogene Promoter Are Inhibited by Mithramycin *382*, 329 – 342

Molecular evolution
McCaskill, J.S., R.M. Füchslin and S. Altmeyer
The Stochastic Evolution of Catalysts in Spatially Resolved Molecular Systems *382*, 1343 – 1363

Schuster, P.
Evolution *in Silico* and *in Vitro*: The RNA Model *382*, 1301 – 1314

Morrenain
Vairo Cavalli, S., A. Cortadi, M.C. Arribére, P. Conforti, N.O. Caffini and N. Priolo
Comparison of Two Cysteine Endopeptidases from Latices of *Morrenia brachystephana* Griseb. and *Morrenia odorata* (Hook *et* Arn.) Lindley (Asclepiadaceae) *382*, 879 – 883

Mucin
Brockhausen, I., J. Yang, M. Lehotay, S. Ogata and S. Itzkowitz
Pathways of Mucin *O*-Glycosylation in Normal and Malignant Rat Colonic Epithelial Cells Reveal a Mechanism for Cancer-Associated Sialyl-Tn Antigen Expression *382*, 219 – 232

Hanisch, F.-G.
O-Glycosylation of the Mucin Type *382*, 143 – 149

***N*-acetylglucosamine kinase**
Hinderlich, S., M. Berger, O.T. Keppler, M. Pawlita and W. Reutter
Biosynthesis of *N*-Acetylneuraminic Acid in Cells Lacking UDP-*N*-Acetylglucosamine 2-Epimerase/*N*-Acetylmannosamine Kinase *382*, 291 – 297

NADH fluorescence
Rex, A., L. Pfeifer and H. Fink
Determination of NADH in Frozen Rat Brain Sections by Laser-Induced Fluorescence *382*, 1727 – 1732

***N*-glycosylation**
Albach, C., R.A. Klein and B. Schmitz
Do Rodent and Human Brains Have Different N-Glycosylation Patterns? *382*, 187 – 194

Sarkar, M. and H. Schachter
Cloning and Expression of *Drosophila melanogaster* UDP-GlcNAc:α-3-D-Mannoside β1,2-N-Acetylglucosaminyltransferase I *382*, 209 – 217

Sharma, C.B., R. Knauer and L. Lehle
Biosynthesis of Lipid-Linked Oligosaccharides in Yeast: the *ALG3* Gene Encodes the Dol-P-Man:$Man_5GlcNAc_2$-PP-Dol Mannosyltransferase *382*, 321–328

Neurotoxin AahI
Aubrey, N., C. Devaux, E. di Luccio, M. Goyffon, H. Rochat and P. Billiald
A Recombinant scFv/Streptavidin-Binding Peptide Fusion Protein for the Quantitative Determination of the Scorpion Venom Neurotoxin AahI *382*, 1621–1628

Neurotransmitter synthesis
Tang, L. and G. Frank
Identification and Characterization of an Aromatic Amino Acid Decarboxylase from the Filarial Nematode, *Dirofilaria immitis* *382*, 115–122

Neutral network
Schuster, P.
Evolution *in Silico* and *in Vitro*: The RNA Model *382*, 1301–1314

NF-κB
Bondzio, A., A. Abraham-Podgornik, P. Blankenstein and S. Risse
Involvement of Intracellular Ca^{2+} in the Regulation of Bovine Leukemia Virus Expression *382*, 407–416

Nitric oxide (NO)
Tokimoto, T., and K. Shinagawa
Nitric Oxide Generation in Aqueous Solutions of Cigarette Smoke and Approaches to Its Origin *382*, 1613–1619

Olfactory receptor
Hatt, H., K. Lang and G. Gisselmann
Functional Expression and Characterization of Odorant Receptors Using the Semliki Forest Virus System *382*, 1207–1214

Oligodendrocyte
Söhl, G., J. Eiberger, Y.T. Jung, C.A. Kozak and K. Willecke
The Mouse Gap Junction Gene Connexin29 Is Highly Expressed in Sciatic Nerve and Regulated during Brain Development *382*, 973–978

Oligosaccharyltransferase
Hardt, B., R. Aparicio, W. Breuer and E. Bause
Analysis of Structural Signals Conferring Localisation of Pig OST48 to the Endoplasmic Reticulum *382*, 1039–1047

Outer membrane protein
Čamaj, P., A.E. Hirsh, W. Schmidt, A. Meinke and A. von Gabain
Ligand-Mediated Protection against Phage Lysis as a Positive Selection Strategy for the Enrichment of Epitopes Displayed on the Surface of *E. coli* Cells *382*, 1669–1677

Oxidative stress
Agnez-Lima, L.F., P. Di Mascio, B. Demple and C.F.M. Menck
Singlet Molecular Oxygen Triggers the *soxRS* Regulon of *Escherichia coli* *382*, 1071–1075

Battino, M., S. Bompadre, L. Lecne, R.F. Villa and A. Gorini
Coenzymes Q_9 and Q_{10}, Vitamin E and Peroxidation in Rat Synaptic and Non-Synaptic Occipital Cerebral Cortex Mitochondria during Ageing *382*, 925–931

Moosmann, B., T. Skutella, K. Beyer and C. Behl
Protective Activity of Aromatic Amines and Imines against Oxidative Nerve Cell Death *382*, 1601–1612

Söhling, B., T. Parther, K.P. Rücknagel, M. Wagner and J.R. Andreesen
A Selenocysteine-Containing Peroxiredoxin from the Strictly Anaerobic Organism *Eubacterium acidaminophilum* *382*, 979–986

Papain
de Oliveira, C., L.A. Santana, A.K. Carmona, M.H. Cezari, M.U. Sampaio, C.A.M. Sampaio and M.L.V. Oliva
Structure of Cruzipain/Cruzain Inhibitors Isolated from *Bauhinia bauhinioides* Seeds *382*, 847–852

Wojnar, P., W. van't Hof, P. Merschak, M. Lechner and B. Redl
The N-Terminal Part of Recombinant Human Tear Lipocalin/von Ebner's Gland Protein Confers Cysteine Proteinase Inhibition Depending on the Presence of the Entire Cystatin-Like Sequence Motifs *382*, 1515–1520

Peptide library
Wiesmüller, K.-H., B. Fleckenstein and G. Jung
Peptide Vaccines and Peptide Libraries *382*, 571–579

Peroxidase
Söhling, B., T. Parther, K.P. Rücknagel, M. Wagner and J.R. Andreesen
A Selenocysteine-Containing Peroxiredoxin from the Strictly Anaerobic Organism *Eubacterium acidaminophilum* *382*, 979–986

Phenylpropanoid metabolism
Cukovic, D., J. Ehlting, J.A. VanZiffle and C.J. Douglas
Structure and Evolution of 4-Coumarate:Coenzyme A Ligase (*4CL*) Gene Families *382*, 645–654

Phosphatase
Bordo, D., F. Forlani, A. Spallarossa, R. Colnaghi, A. Carpen, M. Bolognesi and S. Pagani
A Persulfurated Cysteine Promotes Active Site Reactivity in *Azotobacter vinelandii* Rhodanese *382*, 1245–1252

Phosphatidylinositol
Linke, T., G. Wilkening, S. Lansmann, H. Moczall, O. Bartelsen, J. Weisgerber and K. Sandhoff
Stimulation of Acid Sphingomyelinase Activity by Lysosomal Lipids and Sphingolipid Activator Proteins *382*, 283–290

Phosphoglycerate kinase
Wassenberg, D., M. Wuhrer, N. Beaucamp, H. Schurig, M. Wozny, D. Reusch, S. Fabry and R. Jaenicke
Local Variability of the Phosphoglycerate Kinase-Triosephosphate Isomerase Fusion Protein from *Thermotoga maritima* MSB 8 *382*, 693–697

Phospholipid
Costello, C.E., D.H. Beach and B.N. Singh
Acidic Glycerol Lipids of *Trichomonas vaginalis* and *Tritrichomonas foetus* *382*, 275–281

Photosynthesis
Matysik, J., E. Schulten, Alia, P. Gast, J. Raap, J. Lugtenburg, A.J. Hoff and H.J.M. de Groot
Photo-CIDNP ^{13}C Magic Angle Spinning NMR on Bacterial Reaction Centres: Exploring the Electronic Structure of the Special Pair and Its Surroundings *382*, 1271–1276

Phototransduction
Breikers, G., P.H.M. Bovee-Geurts, G.L.J. DeCaluwé and W.J. DeGrip
A Structural Role for Asp83 in the Photoactivation of Rhodopsin *382*, 1263–1270

Plasminogen activator, tissue-type
Myöhänen, H., I. Virtanen and A. Vaheri
Elimination of Hydrocortisone from the Medium Enables Tissue Plasminogen Activator Gene Expression by Normal and Immortalized Nonmalignant Human Epithelial Cells *382*, 1563–1573

Plasminogen activator, urokinase-type
Engelholm, L.H. and N. Behrendt
Differential Binding of Urokinase and Peptide Antagonists to the Urokinase Receptor: Evidence from Characterization of the Receptor in Four Primate Species *382*, 435 – 442

Lutz, V., U. Reuning, A. Krüger, T. Luther, S. Pildner von Steinburg, H. Graeff, M. Schmitt, O.G. Wilhelm and V. Magdolen
High Level Synthesis of Recombinant Soluble Urokinase Receptor (CD87) by Ovarian Cancer Cells Reduces Intraperitoneal Tumor Growth and Spread in Nude Mice *382*, 789 – 798

Magdolen, V., M. Bürgle, N. Arroyo de Prada, N. Schmiedeberg, C. Riemer, F. Schroeck, J. Kellermann, K. Degitz, O.G. Wilhelm, M. Schmitt and H. Kessler
Cyclo ^{19,31}[D-Cys^{19}]-uPA$_{19-31}$ Is a Potent Competitive Anatagonist of the Interaction of Urokinase-Type Plasminogen Activator with Its Receptor (CD87) *382*, 1197 – 1205

Myöhänen, H., I. Virtanen and A. Vaheri
Elimination of Hydrocortisone from the Medium Enables Tissue Plasminogen Activator Gene Expression by Normal and Immortalized Nonmalignant Human Epithelial Cells *382*, 1563 – 1573

Polydimethylsiloxane
Casoli, A. and M. Schönhoff
Fluorescence Correlation Spectroscopy as a Tool to Investigate Single Molecule Probe Dynamics in Thin Polymer Films *382*, 363 – 369

Prions
Jansen, K., O. Schäfer, E. Birkmann, K. Post, H. Serban, S.B. Prusiner and D. Riesner
Structural Intermediates in the Putative Pathway from the Cellular Prion Protein to the Pathogenic Form *382*, 683 – 691

Procyanidin
Schewe, T., C. Sadik, L.-O. Klotz, T. Yoshimoto, H. Kühn and H. Sies
Polyphenols of Cocoa: Inhibition of Mammalian 15-Lipoxygenase *382*, 1687 – 1696

Progesterone
Ozaki, Y., K. Blomgren, M.S. Ogasawara, K. Aoki, T. Furuno, M. Nakanishi, M. Sasaki and K. Suzumori
Role of Calpain in Human Sperm Activated by Progesterone for Fertilization *382*, 831 – 838

Protamine
Delie, F., R. Gurny and A. Zimmer
Fluorescence Correlation Spectroscopy for the Characterisation of Drug Delivery Systems *382*, 487 – 490

Protease, cysteine
Banbula, A., P. Mak, M. Smoluch, J. Travis and J. Potempa
Arginine-Specific Cysteine Proteinase from *Porphyromonas gingivalis* as a Convenient Tool in Protein Chemistry *382*, 1399 – 1404

Barrett, A.J. and N.D. Rawlings
Evolutionary Lines of Cysteine Peptidases *382*, 727 – 733

Chen, J.-M., M. Fortunato, R.A.E. Stevens and A.J. Barrett
Activation of Progelatinase A by Mammalian Legumain, a Recently Discovered Cysteine Proteinase *382*, 777 – 783

Desmazes, C., F. Gauthier and G. Lalmanach
Cathepsin L, But Not Cathepsin B, Is a Potential Kininogenase *382*, 811 – 815

Dubin, G., D. Chmiel, P. Mak, M. Rakwalska, M. Rzychon and A. Dubin
Molecular Cloning and Biochemical Characterisation of Proteases from *Staphylococcus epidermidis* *382*, 1575 – 1582

Gabrijelcic-Geiger, D., R. Mentele, B. Meisel, H. Hinz, I. Assfalg-Machleidt, W. Machleidt, A. Möller and E.A. Auerswald
Human μ-Calpain: Simple Isolation from Erythrocytes and Characterization of Autolysis Fragments *382*, 1733 – 1737

López, L.M.I., C. Sequeiros, S.A. Trejo, M.F. Pardo, N.O. Caffini and C.L. Natalucci
Comparison of Two Cysteine . Endopeptidases from *Pseudananas macrodontes* (Morr.) Harms (Bromeliaceae) *382*, 875 – 878

Ménard, R., C. Therrien, P. Lachance, T. Sulea, H. Qi, A. Alvarez-Hernandez and W.R. Roush
Cathepsins X and B Display Distinct Activity Profiles That Can Be Exploited for Inhibitor Design *382*, 839 – 845

Ozaki, Y., K. Blomgren, M.S. Ogasawara, K. Aoki, T. Furuno, M. Nakanishi, M. Sasaki and K. Suzumori
Role of Calpain in Human Sperm Activated by Progesterone for Fertilization *382*, 831 – 838

Pardo, M.F., L.M.I. López, N.O. Caffini and C.L. Natalucci
Properties of a Milk Clotting Protease Isolated from Fruits of *Bromelia balansae* Mez *382*, 871 – 874

Premzl, A., V. Puizdar, V. Zavašnik-Bergant, N. Kopitar-Jerala, T.T. Lah, N. Katunuma, B.F. Sloane, V. Turk and J. Kos
Invasion of *ras*-Transformed Breast Epithelial Cells Depends on the Proteolytic Activity of Cysteine and Aspartic Proteinases *382*, 853 – 857

Reverter, D., S. Strobl, C. Fernandez-Catalan, H. Sorimachi, K. Suzuki and W. Bode
Structural Basis for Possible Calcium-Induced Activation Mechanisms of Calpains *382*, 753 – 766

Rotari, V.I., P.M. Dando and A.J. Barrett
Legumain Forms from Plants and Animals Differ in Their Specificity *382*, 953 – 959

Schilling, K., S. Pietschmann, M. Fehn, I. Wenz and B. Wiederanders
Folding Incompetence of Cathepsin L-Like Cysteine Proteases May Be Compensated by the Highly Conserved, Domain-Building N-Terminal Extension of the Proregion *382*, 859 – 865

Vairo Cavalli, S., A. Cortadi, M.C. Arribére, P. Conforti, N.O. Caffini and N. Priolo
Comparison of Two Cysteine Endopeptidases from Latices of *Morrenia brachystephana* Griseb. and *Morrenia odorata* (Hook *et* Arn.) Lindley (Asclepiadaceae) *382*, 879 – 883

Zavašnik-Bergant, V., A. Sekirnik, R. Golouh, V. Turk and J. Kos
Immunochemical Localisation of Cathepsin S, Cathepsin L and MHC Class II-Associated p41 Isoform of Invariant Chain in Human Lymph Node Tissue *382*, 799 – 804

Protease inhibitor, antitrypsin
Chow, M.K.M., G.L. Devlin and S.P. Bottomley
Osmolytes as Modulators of Conformational Changes in Serpins *382*, 1593 – 1599

Protease inhibitor, cystatin
Wojnar, P., W. van't Hof, P. Merschak, M. Lechner and B. Redl
The N-Terminal Part of Recombinant Human Tear Lipocalin/von Ebner's Gland Protein Confers Cysteine Proteinase Inhibition Depending on the Presence of the Entire Cystatin-Like Sequence Motifs *382*, 1515 – 1520

Protease, metal ion-requiring
Grams, F., H. Brandstetter, S. D'Alò, D. Geppert, H.-W. Krell, H. Leinert, V. Livi, E. Menta, A. Oliva and G. Zimmermann
Pyrimidine-2,4,6-Triones: A New Effective and Selective Class of Matrix Metalloproteinase Inhibitors *382*, 1277 – 1285

Klier, C.M., E.L. Nelson, C.D. Cohen, R. Horuk, D. Schlöndorff and P.J. Nelson
Chemokine-Induced Secretion of Gelatinase B in Primary Human Monocytes *382*, 1405 – 1410

Smolian, H., A. Aurer, M. Sittinger, J. Zacher, J.-P. Bernimoulin, G.-R. Burmester and H. Kolkenbrock
Secretion of Gelatinases and Activation of Gelatinase A (MMP-2) by Human Rheumatoid Synovial Fibroblasts *382*, 1491 – 1499

Stratmann, B., M. Farr and H. Tschesche
Characterization of C-Terminally Truncated Human Tissue Inhibitor of Metalloproteinases-4 Expressed in *Pichia pastoris* *382*, 987 – 991

Protease, serine
Dubin, G., D. Chmiel, P. Mak, M. Rakwalska, M. Rzychon and A. Dubin
Molecular Cloning and Biochemical Characterisation of Proteases from *Staphylococcus epidermidis* *382*, 1575 – 1582

Moon, J.L., A. Banbula, A. Oleksy, J.A. Mayo and J. Travis
Isolation and Characterization of a Highly Specific Serine Endopeptidase from an Oral Strain of *Staphylococcus epidermidis* *382*, 1095 – 1099

Schnepel, J., J. Unger and H. Tschesche
Recombinant Cryptic Human Fibronectinase Cleaves Actin and Myosin: Substrate Specificity and Possible Role in Muscular Dystrophy *382*, 1707 – 1714

Uchikoba,T., T. Mase, K. Arima, H. Yonezawa and M. Kaneda
Isolation and Characterization of a Trypsin-Like Protease from *Trichoderma viride* *382*, 1509 – 1513

Protease, Tricorn
Tamura, N., G. Pfeifer, W. Baumeister and T. Tamura
Tricorn Protease in Bacteria: Characterization of the Enzyme from *Streptomyces coelicolor* *382*, 449 – 458

Protein folding
Chow, M.K.M., G.L. Devlin and S.P. Bottomley
Osmolytes as Modulators of Conformational Changes in Serpins *382*, 1593 – 1599

Guo, Z.-Y. and Y.-M. Feng
Effects of Cysteine to Serine Substitutions in the Two Inter-Chain Disulfide Bonds of Insulin *382*, 443 – 448

Jansen, K., O. Schäfer, E. Birkmann, K. Post, H. Serban, S.B. Prusiner and D. Riesner
Structural Intermediates in the Putative Pathway from the Cellular Prion Protein to the Pathogenic Form *382*, 683 – 691

Li, Q., H.-Y. Hu, W.-Q. Wang and G.-J. Xu
Structural and Redox Properties of the Leaderless DsbE (CcmG) Protein: Both Active-Site Cysteines of the Reduced Form Are Involved in Its Function in the *Escherichia coli* Periplasm *382*, 1679 – 1686

Schaffitzel, E., S. Rüdiger, B. Bukau and E. Deuerling
Functional Dissection of Trigger Factor and DnaK: Interactions with Nascent Polypeptides and Thermally Denatured Proteins *382*, 1235 – 1243

Protein kinase C
Ehrnsperger, C. and W. Volknandt
Major Vault Protein Is a Substrate of Endogenous Protein Kinases in CHO and PC12 Cells *382*, 1463 – 1471

Erdös, E.G. and B.M. Marcic
Kinins, Receptors, Kinases and Inhibitors – Where Did They Lead Us? *382*, 43 – 47

Sato, K. and S. Kawashima
Calpain Function in the Modulation of Signal Transduction Molecules *382*, 743 – 751

Proteome analysis
Stevanovic, S. and P. Bohley
Proteome Analysis by Three-Dimensional Protein Separation: Turnover of Cytosolic Proteins in Hepatocytes *382*, 677 – 682

Prothymosin α
Piñeiro, A., M. Begoña Bugia, M. Pilar Arias, O.J. Cordero and M. Nogueira
Identification of Receptors for Prothymosin α on Human Lymphocytes *382*, 1473 – 1482

Protooncogene
Igaz, P., S. Bösze, S. Tóth, A. Falus and F. Hudecz
C-Terminal Peptides of Interleukin-6 Modulate the Expression of *junB* Protooncogene and the Production of Fibrinogen by HepG2 Cells *382*, 669 – 676

Pyrimidine 5'-nucleotidase
Hokari, S., T. Miyazaki, M. Hasegawa, I. Koyama and T. Komoda
Chicken Erythrocyte Pyrimidine 5'-Nucleotidase: Purification and Characterization of the Subclass I Enzyme *382*, 919 – 924

Quantitative structure-activity relationship (QSAR)
Moosmann, B., T. Skutella, K. Beyer and C. Behl
Protective Activity of Aromatic Amines and Imines against Oxidative Nerve Cell Death *382*, 1601 – 1612

Reactive oxygen species
Agnez-Lima, L.F., P. Di Mascio, B. Demple and C.F.M. Menck
Singlet Molecular Oxygen Triggers the *soxRS* Regulon of *Escherichia coli* *382*, 1071 – 1075

Lee, I., E. Bender, S. Arnold and B. Kadenbach
New Control of Mitochondrial Membrane Potential and ROS Formation – A Hypothesis *382*, 1629 – 1636

Teixeira, P.C., J. Onuki, M.H.G. Medeiros, D. Dörnemann and P. Di Mascio
DNA Damage by 3,6-Dihydropyrazine-2,5-Dipropanoic Acid, the Cyclic Dimerization Product of 5-Aminolevulinic Acid *382*, 913 – 918

Wagner, G., K. Stettmaier, W. Bors, H. Sies, E.-M. Wagner, A. Reuter and H. Weiher
Enhanced Gamma-Glutamyl Transpeptidase Expression and Superoxide Production in Mpv17$^{-/-}$ Glomerulosclerosis Mice *382*, 1019 – 1025

Retina
Enz, R.
$GABA_C$ Receptors: A Molecular View *328*, 1111 – 1122

Li, N., I. Sokal, J.D. Bronson, K. Palczewski and W. Baehr
Identification of Functional Regions of Guanylate Cyclase-Activating Protein 1 (GCAP1) Using GCAP1/GCIP Chimeras *382*, 1179 – 1188

Rhodamine
Casoli, A. and M. Schönhoff
Fluorescence Correlation Spectroscopy as a Tool to Investigate Single Molecule Probe Dynamics in Thin Polymer Films *382*, 363 – 369

Pramanik, A. and R. Rigler
Ligand-Receptor Interactions in the Membrane of Cultured Cells Monitored by Fluorescence Correlation Spectroscopy *382*, 371 – 378

Rhodanese
Bordo, D., F. Forlani, A. Spallarossa, R. Colnaghi, A. Carpen, M. Bolognesi and S. Pagani
A Persulfurated Cysteine Promotes Active Site Reactivity in *Azotobacter vinelandii* Rhodanese *382*, 1245–1252

Rhodopsin
Breikers, G., P.H.M. Bovee-Geurts, G.L.J. DeCaluwé and W.J. DeGrip
A Structural Role for Asp83 in the Photoactivation of Rhodopsin *382*, 1263–1270

Ribonuclease P
Andrews, A.J., T.A. Hall and J.W. Brown
Characterization of RNase P Holoenzymes from *Methanococcus jannaschii* and *Methanothermobacter thermoautotrophicus* *382*, 1171–1177

Ribonuclease T1
Greiner-Stöffele, T., H.-H. Förster, H.-J. Hofmann and U. Hahn
RNase-Stable RNA: Conformational Parameters of the Nucleic Acid Backbone for Binding to RNase T1 *382*, 1007–1017

Ribonucleoprotein
Kellmann, J.-W., P. Liebisch, K.-P. Schmitz and B. Piechulla
Visual Representation by Atomic Force Microscopy (AFM) of Tomato Spotted Wilt Virus Ribonucleoproteins *382*, 1559–1562

Ribophorin I
Hardt, B., R. Aparicio, W. Breuer and E. Bause
Analysis of Structural Signals Conferring Localisation of Pig OST48 to the Endoplasmic Reticulum *382*, 1039–1047

Ribosome
Kaser, A., E. Bogengruber, M. Hallegger, E. Doppler, G. Lepperdinger, M. Jantsch, M. Breitenbach and G. Kreil
Brix From *Xenopus laevis* and Brx1p From Yeast Define a New Family of Proteins Involved in the Biogenesis of Large Ribosomal Subunits *382*, 1637–1647

Leontiadou, F., D. Triantafillidou and T. Choli-Papadopoulou
On the Characterization of the Putative S20-Thx Operon of *Thermus thermophilus* *382*, 1001–1006

Sloma, M.S. and O. Nygård
Chemical Accessibility of 18S rRNA in Native Ribosomal Complexes: Interaction Sites of mRNA, tRNA and Translation Factors *382*, 661–668

Ribozyme
Gimple, O. and A. Schön
In Vitro and *in Vivo* Processing of Cyanelle tmRNA by RNase P *382*, 1421–1429

Jäschke, A.
RNA-Catalyzed Carbon-Carbon Bond Formation *382*, 1321–1325

Andrews, A.J., T.A. Hall and J.W. Brown
Characterization of RNase P Holoenzymes from *Methanococcus jannaschii* and *Methanothermobacter thermoautotrophicus* *382*, 1171–1177

RNA, catalytic
Jäschke, A.
RNA-Catalyzed Carbon-Carbon Bond Formation *382*, 1321–1325

RNA polymerase I
Seither, P., S. Iben, M. Thiry and I. Grummt
PAF67, a Novel Protein That Is Associated with the Initiation-Competent Form of RNA Polymerase I *382*, 1163–1170

RNA polymerase II
Kornberg, R.D.
The Eukaryotic Gene Transcription Machinery *382*, 1103–1107

RNA-protein interaction
Bonin, M., J. Oberstrass, U. Vogt, M. Wassenegger and W. Nellen
Binding of IRE-BP to Its Cognate RNA Sequence: SFM Studies on a Universal RNA Backbone for the Analysis of RNA-Protein Interaction *382*, 1157–1162

RNase P
Gimple, O. and A. Schön
In Vitro and *in Vivo* Processing of Cyanelle tmRNA by RNase P *382*, 1421–1429

Selectin
Komba, S., M. Yamaguchi, H. Ishida and M. Kiso
6-*O*-Sulfo De-*N*-Acetylsialyl Lewis X as a Novel High-Affinity Ligand for Human L-Selectin: Total Synthesis and Structural Characterization *382*, 233–240

Selenoprotein
Söhling, B., T. Parther, K.P. Rücknagel, M. Wagner and J.R. Andreesen
A Selenocysteine-Containing Peroxiredoxin from the Strictly Anaerobic Organism *Eubacterium acidaminophilum* *382*, 979–986

Serotonin receptor
Van Craenenbroeck, E., J. Vercammen, G. Matthys, J. Beirlant, C. Marot, J. Hoebeke, R. Strobbe and Y. Engelborghs
Heuristic Statistical Analysis of Fluorescence Fluctuation Data with Bright Spikes: Application to Ligand Binding to the Human Serotonin Receptor Expressed in *Escherichia coli* Cells *382*, 355–361

Sialidase
Kleineidam, R.G., S. Kruse, P. Roggentin and R. Schauer
Elucidation of the Role of Functional Amino Acid Residues of the Small Sialidase from *Clostridium perfringens* by Site-Directed Mutagenesis *382*, 313–319

Sialylation
Brockhausen, I., J. Yang, M. Lehotay, S. Ogata and S. Itzkowitz
Pathways of Mucin *O*-Glycosylation in Normal and Malignant Rat Colonic Epithelial Cells Reveal a Mechanism for Cancer-Associated Sialyl-Tn Antigen Expression *382*, 219–232

Hinderlich, S., M. Berger, O.T. Keppler, M. Pawlita and W. Reutter
Biosynthesis of *N*-Acetylneuraminic Acid in Cells Lacking UDP-*N*-Acetylglucosamine 2-Epimerase/*N*-Acetylmannosamine Kinase *382*, 291–297

Komba, S., M. Yamaguchi, H. Ishida and M. Kiso
6-*O*-Sulfo De-*N*-Acetylsialyl Lewis X as a Novel High-Affinity Ligand for Human L-Selectin: Total Synthesis and Structural Characterization *382*, 233–240

Marchal, I., D.L. Jarvis, R. Cacan and A. Verbert
Glycoproteins from Insect Cells: Sialylated or Not? *382*, 151–159

Signal transduction
Bode, J.G., S. Ludwig, C.A. Correia Freitas, F. Schaper, M. Ruhl, S. Melmed, P.C. Heinrich and D. Häussinger
The MKK6/p38 Mitogen-Activated Protein Kinase Pathway Is Capable of Inducing SOCS3 Gene Expression and Inhibits IL-6-Induced Transcription *382*, 1447–1453

Gutsmann, T., N. Haberer, S.F. Carroll, U. Seydel and A. Wiese
Interaction between Lipopolysaccharide (LPS), LPS-Binding Protein (LBP), and Planar Membranes *382*, 425 – 434

Hackel, P.O., M. Gishizky and A. Ullrich
Mig-6 Is a Negative Regulator of the Epidermal Growth Factor Receptor Signal *382*, 1649 – 1662

Higashida, H., S. Yokoyama, N. Hoshi, M. Hashii, A. Egorova, Z.-G. Zhong, M. Noda, M. Shahidullah, M. Taketo, R. Knijnik, Y. Kimura, H. Takahashi, X.-L. Chen, Y. Shin and J.-S. Zhang
Signal Transduction from Bradykinin, Angiotensin, Adrenergic and Muscarinic Receptors to Effector Enzymes, Including ADP-Ribosyl Cyclase *382*, 23 – 30

Kaufmann, K., K. Bach and G. Thiel
The Extracellular Signal-Regulated Protein Kinases Erk1/Erk2 Stimulate Expression and Biological Activity of the Transcriptional Regulator Egr-1 *382*, 1077 – 1081

Liebmann, C.
Bradykinin Signalling to MAP Kinase: Cell-Specific Connections *versus* Principle Mitogenic Pathways *382*, 49 – 55

Müller, G. and M. Lipp
Signal Transduction by the Chemokine Receptor CXCR5: Structural Requirements for G Protein Activation Analyzed by Chimeric CXCR1/CXCR5 Molecules *382*, 1387 – 1397

Sato, K. and S. Kawashima
Calpain Function in the Modulation of Signal Transduction Molecules *382*, 743 – 751

Smolian, H., A. Aurer, M. Sittinger, J. Zacher, J.-P. Bernimoulin, G.-R. Burmester and H. Kolkenbrock
Secretion of Gelatinases and Activation of Gelatinase A (MMP-2) by Human Rheumatoid Synovial Fibroblasts *382*, 1491 – 1499

Völkert, M., M. Wagner, C. Peters and H. Waldmann
The Chemical Biology of Ras Lipidation *382*, 1133 – 1145

Zwerger, K. and H. Hirt
Recent Advances in Plant MAP Kinase Signalling *382*, 1123 – 1131

Single nucleotide polymorphism
Kusser, B., A. Braun, M. Praun, S. Illi, E. von Mutius and A.A. Roscher
Polymorphisms in the Bradykinin B2 Receptor Gene and Childhood Asthma *382*, 885 – 889

Single-stranded DNA binding protein
Tomáška, L, J. Nosek and B. Kucejová
Mitochondrial Single-Stranded DNA Binding Proteins: in Search for New Functions *382*, 179 – 186

Singlet oxygen
Agnez-Lima, L.F., P. Di Mascio, B. Demple and C.F.M. Menck
Singlet Molecular Oxygen Triggers the *soxRS* Regulon of *Escherichia coli* *382*, 1071 – 1075

Sphingolipid
Suzuki, M. and A. Suzuki
Structural Characterization of Fucose-Containing Oligosaccharides by High-Performance Liquid Chromatography and Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry *382*, 251 – 257

Vyas, K.A., H.V. Patel, A.A. Vyas and R.L. Schnaar
Segregation of Gangliosides GM1 and GD3 on Cell Membranes, Isolated Membrane Rafts, and Defined Supported Lipid Monolayers *382*, 241 – 250

Sphingomyelin
Linke, T., G. Wilkening, S. Lansmann, H. Moczall, O. Bartelsen, J. Weisgerber and K. Sandhoff
Stimulation of Acid Sphingomyelinase Activity by Lysosomal Lipids and Sphingolipid Activator Proteins *382*, 283 – 290

Sphingosine kinase
Blaukat, A. and I. Dikic
Activation of Sphingosine Kinase by the Bradykinin B_2 Receptor and Its Implication in Regulation of the ERK/MAP Kinase Pathway *382*, 135 – 139

Splicing, alternative
Davidson, E., J. Caffarella, O. Vitseva, Y.-M. Hou and M.P. King
Isolation of Two cDNAs Encoding Functional Human Cytoplasmic Cysteinyl-tRNA Synthetase *382*, 399 – 406

Staphopain
Dubin, G., D. Chmiel, P. Mak, M. Rakwalska, M. Rzychon and A. Dubin
Molecular Cloning and Biochemical Characterisation of Proteases from *Staphylococcus epidermidis* *382*, 1575 – 1582

Stochastic kinetics
McCaskill, J.S., R.M. Füchslin and S. Altmeyer
The Stochastic Evolution of Catalysts in Spatially Resolved Molecular Systems *382*, 1343 – 1363

Surface plasmon resonance
García Díaz, B., S. Gross, I. Assfalg-Machleidt, D. Pfeiler, N. Gollmitzer, D. Gabrijelcic-Geiger, M.T. Stubbs, H. Fritz, E.A. Auerswald and W. Machleidt
Cystatins as Calpain Inhibitors: Engineered Chicken Cystatin- and Stefin B-Kininogen Domain 2 Hybrids Support a Cystatin-Like Mode of Interaction with the Catalytic Subunit of μ-Calpain *382*, 97 – 107

Surfactant protein
Zaltash, S., W.J. Griffiths, D. Beck, C.-X. Duan, T.E. Weaver and J. Johansson
Membrane Activity of (Cys48Ser) Lung Surfactant Protein B Increases with Dimerisation *382*, 933 – 939

Tail fiber
van Raaij, M.J., G. Schoehn, M. Jaquinod, K. Ashman, M.R. Burda and S. Miller
Identification and Crystallisation of a Heat- and Protease-Stable Fragment of the Bacteriophage T4 Short Tail Fibre *382*, 1049 – 1055

Telomere
Simonsson, T.
G-Quadruplex DNA Structures – Variations on a Theme *382*, 621 – 628

Tetraplex
Simonsson, T.
G-Quadruplex DNA Structures – Variations on a Theme *382*, 621 – 628

Thioredoxin
Hofmann, B., H. Budde, K. Bruns, S.A. Guerrero, H.M. Kalisz, U. Menge, M. Montemartini, E. Nogoceke, P. Steinert, J.B. Wissing, L. Flohé and H.-J. Hecht
Structures of Tryparedoxins Revealing Interaction with Trypanothione *382*, 459 – 471

Thrombin
Budin, N., N. Majeux and A. Caflisch
Fragment-Based Flexible Ligand Docking by Evolutionary Optimization *382*, 1365 – 1372

Thymidylate synthase
Gołos, B., J.M. Dzik, Z. Kazimierczuk, J. Cieśla, Z. Zieliński, J. Jankowska, A. Kraszewski, J. Stawiński, W. Rode and D. Shugar

Interaction of Thymidylate Synthase with the 5'-Thiophosphates, 5'-Dithiophosphates, 5'-H-Phosphonates and 5'-S-Thiosulfates of 2'-Deoxyuridine, Thymidine and 5-Fluoro-2'-Deoxyuridine *382*, 1439 – 1445

Thyroid hormone receptor
Thiel, G., M. Lietz, K. Bach, L. Guethlein and G. Cibelli
Biological Activity of Mammalian Transcriptional Repressors *382*, 891 – 902

Thyroglobulin
Brix, K., M. Linke, C. Tepel and V. Herzog
Cysteine Proteinases Mediate Extracellular Prohormone Processing in the Thyroid *382*, 717 – 725

Tissue inhibitor of metalloproteinases (TIMP)
Stratmann, B., M. Farr and H. Tschesche
Characterization of C-Terminally Truncated Human Tissue Inhibitor of Metalloproteinases-4 Expressed in *Pichia pastoris 382*, 987 – 991

T lymphocyte
Singh-Jasuja, H., N. Hilf, D. Arnold-Schild and H. Schild
The Role of Heat Shock Proteins and Their Receptors in the Activation of the Immune System *382*, 629 – 636

Tomato Spotted Wilt virus
Kellmann, J.-W., P. Liebisch, K.-P. Schmitz and B. Piechulla
Visual Representation by Atomic Force Microscopy (AFM) of Tomato Spotted Wilt Virus Ribonucleoproteins *382*, 1559 – 1562

Transcription
Bode, J.G., S. Ludwig, C.A. Correia Freitas, F. Schaper, M. Ruhl, S. Melmed, P.C. Heinrich and D. Häussinger
The MKK6/p38 Mitogen-Activated Protein Kinase Pathway Is Capable of Inducing SOCS3 Gene Expression and Inhibits IL-6-Induced Transcription *382*, 1447 – 1453

Kaufmann, K., K. Bach and G. Thiel
The Extracellular Signal-Regulated Protein Kinases Erk1/Erk2 Stimulate Expression and Biological Activity of the Transcriptional Regulator Egr-1 *382*, 1077 – 1081

Lorenz, P., D. Koczan and H.-J. Thiesen
Transcriptional Repression Mediated by the KRAB Domain of the Human C_2H_2 Zinc Finger Protein Kox1/ZNF10 Does Not Require Histone Deacetylation *382*, 637 – 644

Pogge von Strandmann, E., S. Senkel and G.U. Ryffel
ERH (Enhancer of Rudimentary Homologue), a Conserved Factor Identical between Frog and Human, Is a Transcriptional Repressor *382*, 1379 – 1385

Seither, P., S. Iben, M. Thiry and I. Grummt
PAF67, a Novel Protein That Is Associated with the Initiation-Competent Form of RNA Polymerase I *382*, 1163 – 1170

Thiel, G., M. Lietz, K. Bach, L. Guethlein and G. Cibelli
Biological Activity of Mammalian Transcriptional Repressors *382*, 891 – 902

Wolf, S.S., K. Roder, S. Sickinger and M. Schweizer
The FIRE3-Mediated Sterol Response of the FAS Promoter Requires NF-Y/CBF as a Coactivator *382*, 1083 – 1088

Transcription factor
Kaufmann, K., K. Bach and G. Thiel
The Extracellular Signal-Regulated Protein Kinases Erk1/Erk2 Stimulate Expression and Biological Activity of the Transcriptional Regulator Egr-1 *382*, 1077 – 1081

Kornberg, R.D.
The Eukaryotic Gene Transcription Machinery *382*, 1103 – 1107

Pogge von Strandmann, E., S. Senkel and G.U. Ryffel
ERH (Enhancer of Rudimentary Homologue), a Conserved Factor Identical between Frog and Human, Is a Transcriptional Repressor *382*, 1379 – 1385

Wolf, S.S., K. Roder, S. Sickinger and M. Schweizer
The FIRE3-Mediated Sterol Response of the FAS Promoter Requires NF-Y/CBF as a Coactivator *382*, 1083 – 1088

Transferrin
Krzyżanowska, D., A. Ożyhar, A. Lalik, J.M. Rodriguez Parkitna, J. Szkudlarek, K. Waśniowska, E. Lisowska and M. Kochman
Juvenile Hormone Binding Protein and Transferrin from *Galleria mellonella* Share a Similar Structural Motif *382*, 1027 – 1037

Transforming growth factor (TGF)
Knaus, P. and W. Sebald
Cooperativity of Binding Epitopes and Receptor Chains in the BMP/TGFβ Superfamily *382*, 1189 – 1195

Translation
Sloma, M.S. and O. Nygård
Chemical Accessibility of 18S rRNA in Native Ribosomal Complexes: Interaction Sites of mRNA, tRNA and Translation Factors *382*, 661 – 668

Translocation
Khanna, H., P.K. Gupta, A. Singh, R. Chandra and Y. Singh
Participation of Residue F^{552} in Domain III of the Protective Antigen in the Biological Activity of Anthrax Lethal Toxin *382*, 941 – 946

Trematode
Wuhrer, M., C. Berkefeld, R.D. Dennis, M.A Idris and R. Geyer
The Liver Flukes *Fasciola gigantica* and *Fasciola hepatica* Express the Leucocyte Cluster of Differentiation Marker CD77 (Globotriaosylceramide) in Their Tegument *382*, 195 – 207

Trichomonad
Costello, C.E., D.H. Beach and B.N. Singh
Acidic Glycerol Lipids of *Trichomonas vaginalis* and *Tritrichomonas foetus 382*, 275 – 281

Trichostatin A
Lorenz, P., D. Koczan and H.-J. Thiesen
Transcriptional Repression Mediated by the KRAB Domain of the Human C_2H_2 Zinc Finger Protein Kox1/ZNF10 Does Not Require Histone Deacetylation *382*, 637 – 644

Trigger factor
Schaffitzel, E., S. Rüdiger, B. Bukau and E. Deuerling
Functional Dissection of Trigger Factor and DnaK: Interactions with Nascent Polypeptides and Thermally Denatured Proteins *382*, 1235 – 1243

Triosephosphate isomerase
Wassenberg, D., M. Wuhrer, N. Beaucamp, H. Schurig, M. Wozny, D. Reusch, S. Fabry and R. Jaenicke
Local Variability of the Phosphoglycerate Kinase-Triosephosphate Isomerase Fusion Protein from *Thermotoga maritima* MSB 8 *382*, 693 – 697

Tripeptidyl peptidase I
Du, P.-G., S. Kato, Y.-H. Li, T. Maeda, T. Yamane, S. Yamamoto, M. Fujiwara, Y. Yamamoto, K. Nishi and I. Ohkubo
Rat Tripeptidyl Peptidase I: Molecular Cloning, Functional Expression, Tissue Localization and Enzymatic Characterization *382*, 1715 – 1725

tRNA editing
Schürer, H., S. Schiffer, A. Marchfelder and M. Mörl
This Is the End: Processing, Editing and Repair at the tRNA 3'-Terminus *382*, 1147–1156

tRNA nucleotidyltransferase
Reichert, A.S., D.L. Thurlow and M. Mörl
A Eubacterial Origin for the Human tRNA Nucleotidyltransferase? *382*, 1431–1438

tRNA processing
Gimple, O. and A. Schön
In Vitro and *in Vivo* Processing of Cyanelle tmRNA by RNase P *382*, 1421–1429

Reichert, A.S., D.L. Thurlow and M. Mörl
A Eubacterial Origin for the Human tRNA Nucleotidyltransferase? *382*, 1431–1438

tRNA repair
Schürer, H., S. Schiffer, A. Marchfelder and M. Mörl
This Is the End: Processing, Editing and Repair at the tRNA 3'-Terminus *382*, 1147–1156

tRNA synthetase, cysteinyl
Davidson, E., J. Caffarella, O. Vitseva, Y.-M. Hou and M.P. King
Isolation of Two cDNAs Encoding Functional Human Cytoplasmic Cysteinyl-tRNA Synthetase *382*, 399–406

Tryparedoxin
Hofmann, B., H. Budde, K. Bruns, S.A. Guerrero, H.M. Kalisz, U. Menge, M. Montemartini, E. Nogoceke, P. Steinert, J.B. Wissing, L. Flohé and H.-J. Hecht
Structures of Tryparedoxins Revealing Interaction with Trypanothione *382*, 459–471

Trypsin
Uchikoba,T., T. Mase, K. Arima, H. Yonezawa and M. Kaneda
Isolation and Characterization of a Trypsin-Like Protease from *Trichoderma viride 382*, 1509–1513

Trypsinogen
Reinheckel, T., J. Deussing, W. Roth and C. Peters
Towards Specific Functions of Lysosomal Cysteine Peptidases: Phenotypes of Mice Deficient for Cathepsin B or Cathepsin L *382*, 735–741

Tryptophan biosynthesis
Henn-Sax, M., B. Höcker, M. Wilmanns and R. Sterner
Divergent Evolution of $(\beta\alpha)_8$-Barrel Enzymes *382*, 1315–1320

Two-color fluorescence cross-correlation spectroscopy
Földes-Papp, Z. and R. Rigler
Quantitative Two-Color Fluorescence Cross-Correlation Spectroscopy in the Analysis of Polymerase Chain Reaction *382*, 473–478

Tyrosine kinase
Sato, K. and S. Kawashima
Calpain Function in the Modulation of Signal Transduction Molecules *382*, 743–751

Vaccination
Meidenbauer, N., R. Andreesen and A. Mackensen
Dendritic Cells for Specific Cancer Immunotherapy *382*, 507–520

Mollenkopf, H., G. Dietrich and S.H.E. Kaufmann
Intracellular Bacteria as Targets and Carriers for Vaccination *382*, 521–532

Schirmbeck, R. and J. Reimann
Revealing the Potential of DNA-Based Vaccination: Lessons Learned from the Hepatitis B Virus Surface Antigen *382*, 543–552

Tsuji, M., E.G. Rodrigues and R.S. Nussenzweig
Progress toward a Malaria Vaccine: Efficient Induction of Protective Anti-Malaria Immunity *382*, 553–570

Weiss, S. and S. Krusch
Bacteria-Mediated Transfer of Eukaryotic Expression Plasmids into Mammalian Host Cells *382*, 533–541

Wiesmüller, K.-H., B. Fleckenstein and G. Jung
Peptide Vaccines and Peptide Libraries*382*, 571–579

Zauner, W., K. Lingnau, F. Mattner, A. von Gabain and M. Buschle
Defined Synthetic Vaccines *382*, 581–595

Vault
Ehrnsperger, C. and W. Volknandt
Major Vault Protein Is a Substrate of Endogenous Protein Kinases in CHO and PC12 Cells *382*, 1463–1471

Vitamin E
Battino, M., S. Bompadre, L. Leone, R.F. Villa and A. Gorini
Coenzymes Q_9 and Q_{10}, Vitamin E and Peroxidation in Rat Synaptic and Non-Synaptic Occipital Cerebral Cortex Mitochondria during Ageing *382*, 925–931